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**SHELDON**

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**E.H. SHELDON & COMPANY**  
MUSKEGON MICHIGAN

SHOP SECTION ONLY OF  
CATALOG NO. 25





# SHOP BENCH AND DRAFTING TABLE SECTION

*of*

LABORATORY FURNITURE CATALOG NO. 25

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BENCHES AND DRAFTING TABLES  
FOR INDUSTRY, DEFENSE PROJECTS  
AND VOCATIONAL EDUCATION

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COMPLETE LABORATORY FURNITURE CATALOG  
ON REQUEST, ILLUSTRATING UNITS FOR FUME  
DISPOSAL, HOSPITALS, INDUSTRIAL RESEARCH  
AND CONTROL, NURSES HOMES, SCIENCE  
AND VOCATIONAL EDUCATION FOR SCHOOLS

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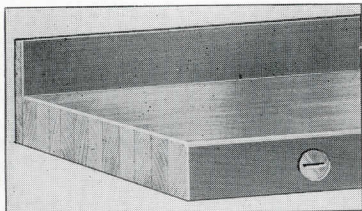
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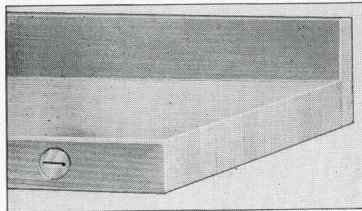


## SHELDON BENCH TOP SPECIFICATIONS



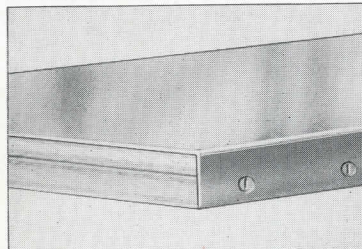
**2-1/4 INCH EDGE GRAIN MAPLE TOP:** This top is used extensively on benches for industry. It has the advantage of tremendous shock absorption without being noisy and the Sheldon bolt reinforcing feature makes it ideal for general shop, machine and sheet metal benches.

**SPECIFICATIONS:** Material shall be select edge grain maple, kiln dried to a moisture content of not more than 4% by weight. The top shall be fabricated of 2-1/4 inch strips glued up with casein glue. Top shall be reinforced with 7/16 inch diameter tie rods located at ends and approximately every 30 inches between ends, with top bored for tie rods, not channeled.



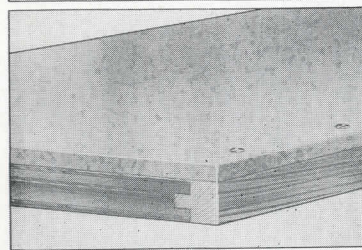
**1-3/4 INCH EDGE GRAIN MAPLE TOP:** This top has the same construction features as the 2-1/4 inch top, but is more adapted for light machine and general shop benches. It also absorbs a great amount of heavy shock and is ideal, as well as economical for many industrial uses.

**SPECIFICATIONS:** Material shall be select edge grain maple, kiln dried to a moisture content of not more than 4% by weight. The top shall be fabricated of 1-3/4 inch strips glued up with casein glue. Top shall be reinforced with 7/16 inch diameter tie rods located at ends and approximately every 30 inches between ends, with top bored for tie rods, not channeled.



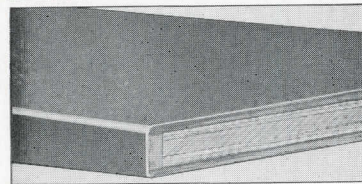
**1-7/8 INCH 12-GAUGE STEEL TOP:** The top illustrated at left has a 12-gauge steel plate mounted over a 1-3/4 inch wood core. It is extremely substantial and has the advantage of a wood core to cushion the steel surface against continued shock. This top is used extensively in machine shops.

**SPECIFICATIONS:** The wood core shall be made up of two unequal thickness sections of veneer, 5 and 7-ply respectively, glued together with casein glue. The steel surface shall be 12-gauge, formed over the wood core on sides and ends, with corners arc welded and ground smooth, and attached through the edges into the core by means of wood screws with holes countersunk. Overall thickness shall be 1-7/8 inches. Finish as specified, enameled or oiled. (Note: When specified, 1/8 inch composition material of compressed wood fibres shall be glued to the underside of the wood core.)



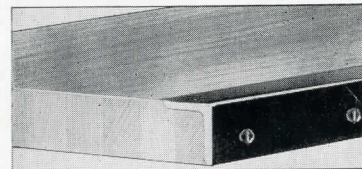
**2-1/4 INCH TRANSITE TOP:** This top with transite slab mounted over a wood core is ideal where direct or reflected heat would otherwise ruin a plain wood top. It is used on benches for light welding and soldering. Small transite sections can be placed in edge grain wood tops where a bench with a dual purpose is required.

**SPECIFICATIONS:** The wood core shall be 1-3/4 inch thick, made up of two unequal thickness sections of veneer, 5 and 7-ply respectively, glued together with casein glue. The transite surface slab shall be 1/2 inch thick and attached to the core through the top by means of screws. Screw holes shall be countersunk. Edges shall be banded with hardwood, finished natural, and overall thickness shall be 2-1/4 inches. (Note: When specified, 1/8 inch composition material of compressed wood fibres shall be glued to the underside of the wood core.)



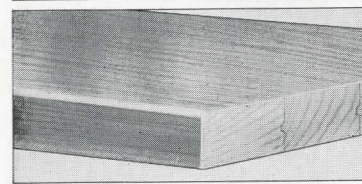
**15/16 INCH WELDED FIBRE TOP:** This top is commonly used on shop tables, electrical benches, and wrapping tables. The finished color is light brown and the finishing materials and method of fabrication give the top a high degree of moisture resistance.

**SPECIFICATIONS:** The core shall be of 5-ply veneer with top and bottom laminations of 1/8 inch composition of compressed wood fibres. The whole assembly shall be glued up with casein glue and edges shall be banded with same material as top surface. The overall thickness shall be 15/16 inch. (Note: This top can also be furnished 1-1/4 inches thick by using a 7-ply core.)



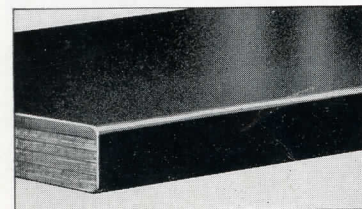
**ANGLE IRON EDGES:** Bench tops used for sheet metal work or in machine shops often need the added protection of angle irons along top edges. This practice eliminates the many hazards associated with splintered bench top edges.

**SPECIFICATIONS:** The 2-1/4 inch top shall be rabbeted on the surface at the edge to a depth of 1/8 inch and 1-1/2" x 2" x 1/8" angle iron set in flush and screwed to the front edge through countersunk screw holes. (Note: When specified, 1-1/4 inch shelves require 1" x 1" x 1/8" angle irons.)



**1-1/4 INCH MAPLE TOP:** This top is commonly used on parachute folding tables and benches in textile industries. The hard varnished finish and rounded top edges make this maple top ideal for many industrial and defense tables and benches. Bench shelves are also commonly made of this 1-1/4 inch material.

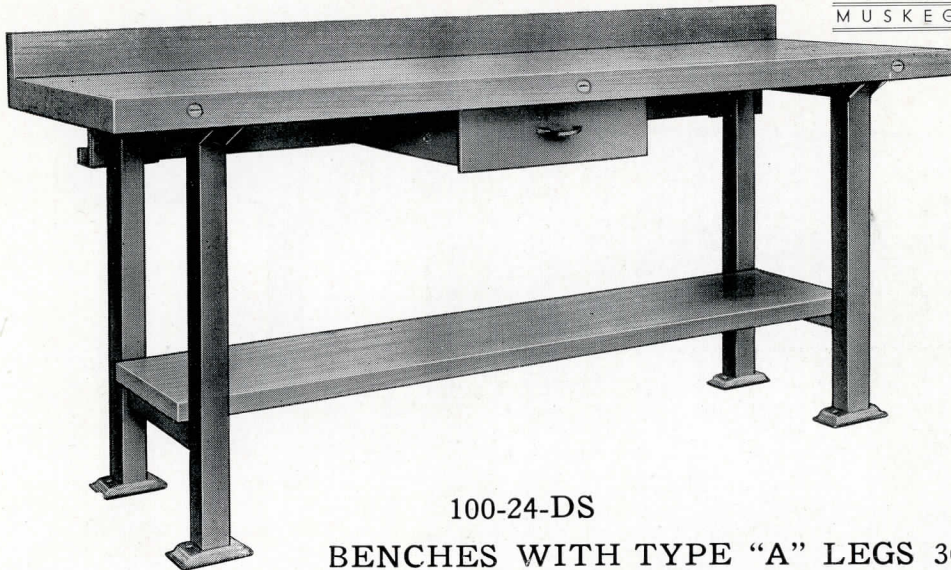
**SPECIFICATIONS:** Material shall be select maple, kiln dried to a moisture content of not more than 4% by weight. Material shall be glued up with casein glue and shall have a finished thickness of 1-1/4 inch. Top shall be finished natural with not less than three coats of spar varnish.



**1-1/4 INCH PLASTI-BESTOS TOP:** Defense laboratories where gasoline and oil quality is controlled often require one or more benches with tops having high resistance to solvents, acids, alkalies and heat. Plasti-Bestos answers these requirements in every respect and is being used extensively in control laboratories throughout the United States.

**SPECIFICATIONS:** The thickness shall be 1-1/4 inch and the finished color shall be black. The top shall be fabricated of a composition core with surface lamination of a long fibred asbestos base impregnated with plastic binder. Finish shall be baked at temperatures not less than 300° Fahrenheit between coats. (Note: For a complete list of tests describing resistance to acids, alkalies and heat, please write factory.)





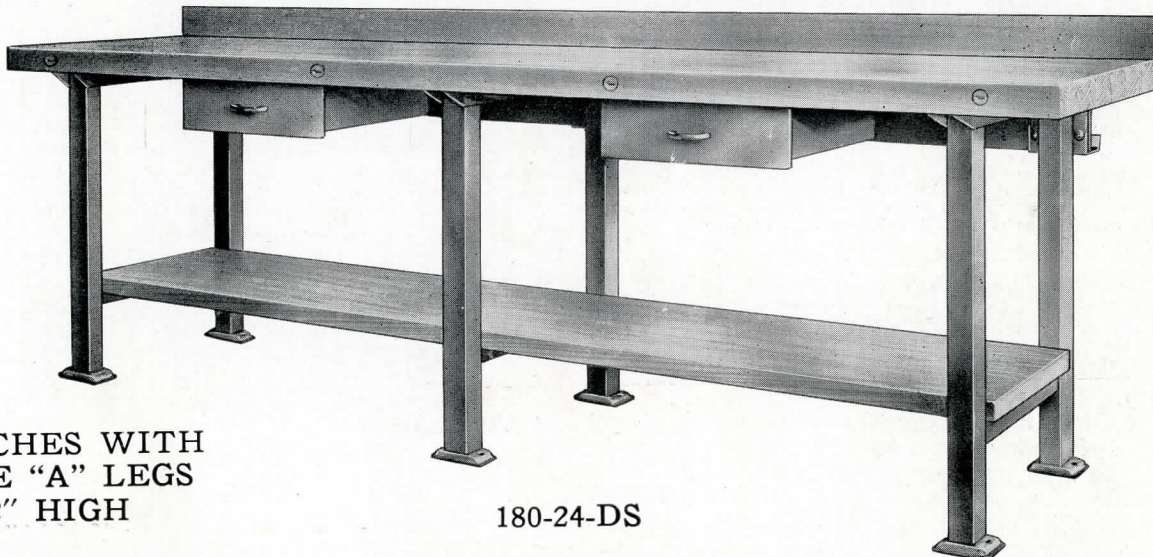
100-24-DS

BENCHES WITH TYPE "A" LEGS 36" HIGH

2-1/4" EDGE GRAIN MAPLE TOP			1-3/4" EDGE GRAIN MAPLE TOP			2 GA. STEEL OVER 1-3/4" WOOD TOP		
#100-24-DS 5' Long 2 Pair Legs 1 Drawer	#115-24-DS 6' Long 2 Pair Legs 1 Drawer	#130-24-DS 8' Long 3 Pair Legs 2 Drawers	#101-24-DS 5' Long 2 Pair Legs 1 Drawer	#116-24-DS 6' Long 2 Pair Legs 1 Drawer	#131-24-DS 8' Long 3 Pair Legs 2 Drawers	#102-24-DS 5' Long 2 Pair Legs 1 Drawer	#117-24-DS 6' Long 2 Pair Legs 1 Drawer	#132-24-DS 8' Long 3 Pair Legs 2 Drawers
#105-30-DS 5' Long 2 Pair Legs 1 Drawer	#120-30-DS 6' Long 2 Pair Legs 1 Drawer	#135-30-DS 8' Long 3 Pair Legs 2 Drawers	#106-30-DS 5' Long 2 Pair Legs 1 Drawer	#121-30-DS 6' Long 2 Pair Legs 1 Drawer	#136-30-DS 8' Long 3 Pair Legs 2 Drawers	#107-30-DS 5' Long 2 Pair Legs 1 Drawer	#122-30-DS 6' Long 2 Pair Legs 1 Drawer	#137-30-DS 8' Long 3 Pair Legs 2 Drawers
#110-36-DS 5' Long 2 Pair Legs 1 Drawer	#125-36-DS 6' Long 2 Pair Legs 1 Drawer	#140-36-DS 8' Long 3 Pair Legs 2 Drawers	#111-36-DS 5' Long 2 Pair Legs 1 Drawer	#126-36-DS 6' Long 2 Pair Legs 1 Drawer	#141-36-DS 8' Long 3 Pair Legs 2 Drawers	#112-36-DS 5' Long 2 Pair Legs 1 Drawer	#127-36-DS 6' Long 2 Pair Legs 1 Drawer	#142-36-DS 8' Long 3 Pair Legs 2 Drawers

NOTE: All benches listed above are 36 inches high, using A type legs. See Page 4 for leg data. First number is serial number; second number indicates width of bench in inches. Suffix D specifies drawer; S specifies shelf. To eliminate drawer or shelf, eliminate respective suffix.

All benches are listed with D type drawers, see Page 7. To substitute E or F type drawers, substitute suffix E or F respectively. This style bench can be furnished in practically any length with legs spaced at maximum of 6 feet apart.



BENCHES WITH  
TYPE "A" LEGS  
32" HIGH

180-24-DS

2-1/4" EDGE GRAIN MAPLE TOP			1-3/4" EDGE GRAIN MAPLE TOP			12 GA. STEEL OVER 1-3/4" WOOD TOP		
#150-24-DS 5' Long 2 Pair Legs 1 Drawer	#165-24-DS 6' Long 2 Pair Legs 1 Drawer	#180-24-DS 8' Long 3 Pair Legs 2 Drawers	#151-24-DS 5' Long 2 Pair Legs 1 Drawer	#166-24-DS 6' Long 2 Pair Legs 1 Drawer	#181-24-DS 8' Long 3 Pair Legs 2 Drawers	#152-24-DS 5' Long 2 Pair Legs 1 Drawer	#167-24-DS 6' Long 2 Pair Legs 1 Drawer	#182-24-DS 8' Long 3 Pair Legs 2 Drawers
#155-30-DS 5' Long 2 Pair Legs 1 Drawer	#170-30-DS 6' Long 2 Pair Legs 1 Drawer	#185-30-DS 8' Long 3 Pair Legs 2 Drawers	#156-30-DS 5' Long 2 Pair Legs 1 Drawer	#171-30-DS 6' Long 2 Pair Legs 1 Drawer	#186-30-DS 8' Long 3 Pair Legs 2 Drawers	#157-30-DS 5' Long 2 Pair Legs 1 Drawer	#172-30-DS 6' Long 2 Pair Legs 1 Drawer	#187-30-DS 8' Long 3 Pair Legs 2 Drawers
#160-36-DS 5' Long 2 Pair Legs 1 Drawer	#175-36-DS 6' Long 2 Pair Legs 1 Drawer	#190-36-DS 8' Long 3 Pair Legs 2 Drawers	#161-36-DS 5' Long 2 Pair Legs 1 Drawer	#176-36-DS 6' Long 2 Pair Legs 1 Drawer	#191-36-DS 8' Long 3 Pair Legs 2 Drawers	#162-36-DS 5' Long 2 Pair Legs 1 Drawer	#177-36-DS 6' Long 2 Pair Legs 1 Drawer	#192-36-DS 8' Long 3 Pair Legs 2 Drawers

NOTE: All benches listed above are 32 inches high, using A type legs. See Page 4 for leg data. First number is serial number; second number indicates width of bench in inches. Suffix D specifies drawer; S specifies shelf. To eliminate drawer or shelf, eliminate respective suffix.

All benches are listed with D type drawers, see Page 7. To substitute E or F type drawers, substitute suffix E or F respectively. This style bench can be furnished in practically any length with legs spaced at maximum of 6 feet apart.





252-27-H

### BENCHES WITH TYPE "A" LEGS 36" HIGH

TYPE A CABINET		TYPE B CABINET		TYPE C CABINET		TYPE D CABINET		TYPE E CABINET	
#200-27-A 6' Long 1 Pr. Legs 1-35" Unit	#210-27-A 8' Long 1 Pr. Legs 1-35" Unit	#201-27-B 6' Long 1 Pr. Legs 1-35" Unit	#211-27-B 8' Long 1 Pr. Legs 1-35" Unit	#202-27-C 6' Long 1 Pr. Legs 1-35" Unit	#212-27-C 8' Long 1 Pr. Legs 1-35" Unit	#203-27-D 6' Long 1 Pr. Legs 1-24" Unit	#213-27-D 8' Long 1 Pr. Legs 1-24" Unit	#204-27-E 6' Long 1 Pr. Legs 1-24" Unit	#214-27-E 8' Long 1 Pr. Legs 1-24" Unit

**NOTE:** All benches listed above are 36 inches high with A type legs. See description of legs at bottom of page. First number is serial number of bench; second number indicates width of bench in inches. Suffixes A through E inclusive specify type of cabinet unit, see Page 7. This

style bench can be furnished in practically any length, with assorted drawer and cupboard units placed beneath, together or at intervals, with or without the use of legs. All benches listed above have 2¼ inch edge grain maple tops.

### BENCHES WITH TYPE "A" LEGS 32" HIGH

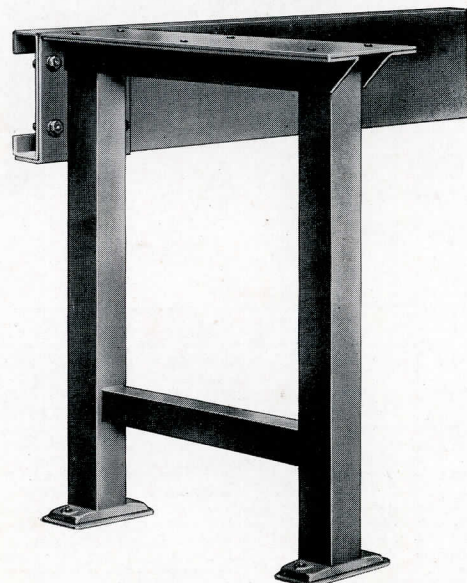
TYPE F CABINET		TYPE G CABINET		TYPE H CABINET		TYPE I CABINET		TYPE K CABINET	
#250-27-F 6' Long 1 Pr. Legs 1-35" Unit	#260-27-F 8' Long 1 Pr. Legs 1-35" Unit	#251-27-G 6' Long 1 Pr. Legs 1-35" Unit	#261-27-G 8' Long 1 Pr. Legs 1-35" Unit	#252-27-H 6' Long 1 Pr. Legs 1-35" Unit	#262-27-H 8' Long 1 Pr. Legs 1-35" Unit	#253-27-J 6' Long 1 Pr. Legs 1-24" Unit	#263-27-J 8' Long 1 Pr. Legs 1-24" Unit	#254-27-K 6' Long 1 Pr. Legs 1-24" Unit	#264-27-K 8' Long 1 Pr. Legs 1-24" Unit

**NOTE:** All benches listed above are 32 inches high with A type legs. See description of legs at bottom of page. First number is serial number of bench; second number indicates width of bench in inches. Suffixes F through K inclusive specify type of cabinet unit, see Page 7. This

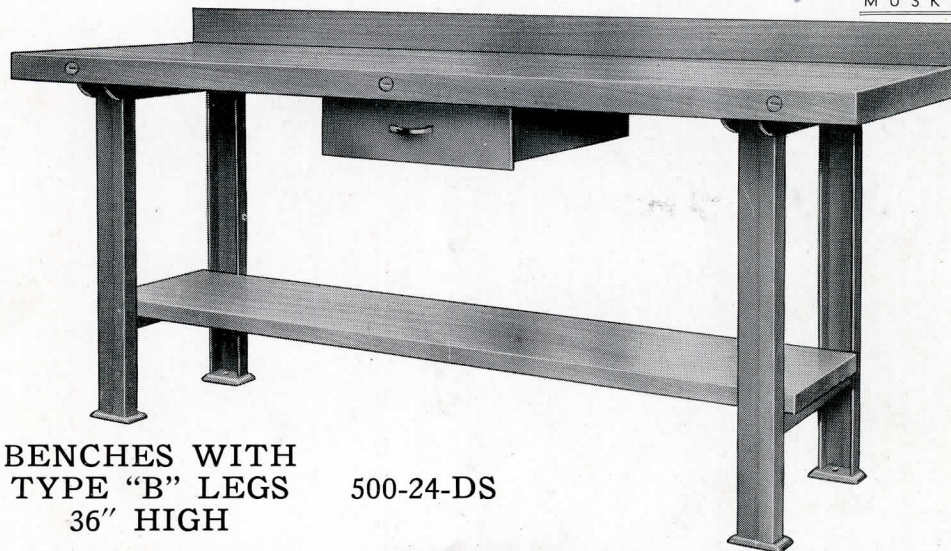
style bench can be furnished in practically any length, with assorted drawer and cupboard units placed beneath, together or at intervals, with or without the use of legs. All benches listed above have 2¼ inch edge grain maple tops.

**TYPE A STEEL LEGS:** Legs shall be fabricated of 16 gauge butt welded tubing, 2½ inches square, welded into a 14 gauge drawn steel shoe 6⅞ inches x 4 inches x ¾ inch high, with each shoe punched with two ½ inch holes for fastening to floor. Each pair of legs shall be reinforced with a 14 gauge stretcher 2¼ x 2¼ inches, welded between legs. Each pair of legs shall be provided with two 12 gauge top angles 1¾ x 1¾ inches spot welded to the legs. A 14 gauge Z-shaped top plate 6 inches wide running from front to back and returned down for stringer support shall be welded to top angles. Bench top shall be fastened to legs through elongated screw holes in top angles as well as top plate. A 16 gauge stringer 5⅞ x 1⅞ inches shall run full length of the rear side of bench and shall rest on and be attached to the back of each top plate by means of four ⅞ inch machine bolts. Legs shall be finished with not less than two coats of olive green baking enamel at not less than 300 degrees Fahrenheit.

### TYPE "A" LEGS AND STRINGER





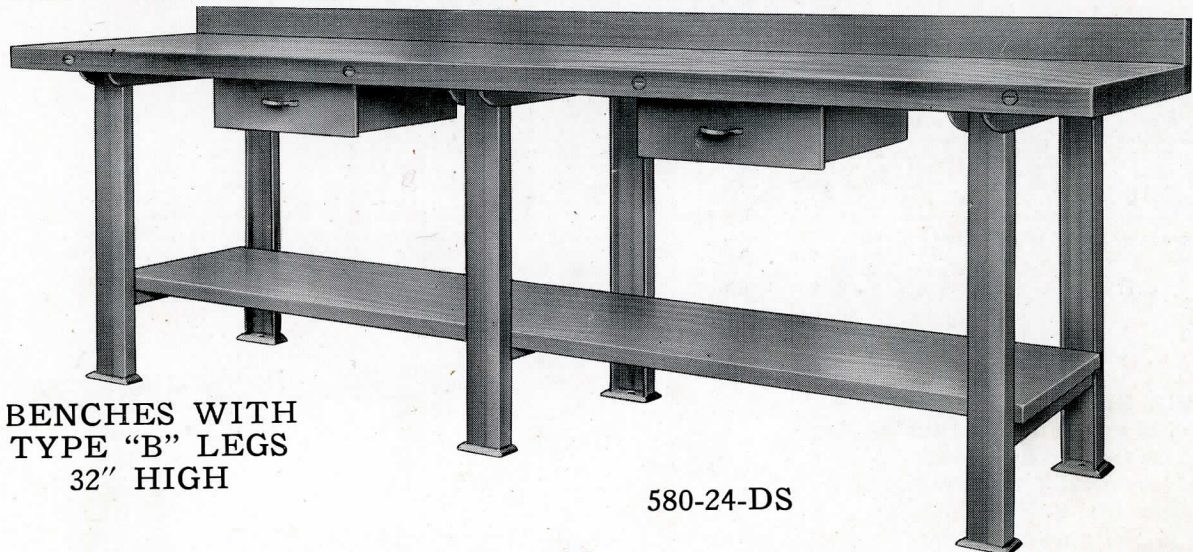


BENCHES WITH  
TYPE "B" LEGS 500-24-DS  
36" HIGH

2-1/4" EDGE GRAIN MAPLE TOP			1-3/4" EDGE GRAIN MAPLE TOP			12 GA. STEEL OVER 1-3/4" WOOD TOP		
#500-24-DS 5' Long 2 Pair Legs 1 Drawer	#515-24-DS 6' Long 2 Pair Legs 1 Drawer	#530-24-DS 8' Long 3 Pair Legs 2 Drawers	#501-24-DS 5' Long 2 Pair Legs 1 Drawer	#516-24-DS 6' Long 2 Pair Legs 1 Drawer	#531-24-DS 8' Long 3 Pair Legs 2 Drawers	#502-24-DS 5' Long 2 Pair Legs 1 Drawer	#517-24-DS 6' Long 2 Pair Legs 1 Drawer	#532-24-DS 8' Long 3 Pair Legs 2 Drawers
#505-30-DS 5' Long 2 Pair Legs 1 Drawer	#520-30-DS 6' Long 2 Pair Legs 1 Drawer	#535-30-DS 8' Long 3 Pair Legs 2 Drawers	#506-30-DS 5' Long 2 Pair Legs 1 Drawer	#521-30-DS 6' Long 2 Pair Legs 1 Drawer	#536-30-DS 8' Long 3 Pair Legs 2 Drawers	#507-30-DS 5' Long 2 Pair Legs 1 Drawer	#522-30-DS 6' Long 2 Pair Legs 1 Drawer	#537-30-DS 8' Long 3 Pair Legs 2 Drawers
#510-36-DS 5' Long 2 Pair Legs 1 Drawer	#525-36-DS 6' Long 2 Pair Legs 1 Drawer	#540-36-DS 8' Long 3 Pair Legs 2 Drawers	#511-36-DS 5' Long 2 Pair Legs 1 Drawer	#526-36-DS 6' Long 2 Pair Legs 1 Drawer	#541-36-DS 8' Long 3 Pair Legs 2 Drawers	#512-36-DS 5' Long 2 Pair Legs 1 Drawer	#527-36-DS 6' Long 2 Pair Legs 1 Drawer	#542-36-DS 8' Long 3 Pair Legs 2 Drawers

NOTE: All benches listed above are 36 inches high using B type legs. See Page 6 for leg data. First number is serial number; second number indicates width of bench in inches. Suffix D specifies drawer; S specifies shelf. To eliminate drawer or shelf, eliminate respective suffix.

All benches are listed with D type drawers, see Page 7. To substitute E or F type drawers, substitute suffix E or F respectively. This style bench can be furnished in practically any length with legs spaced at a maximum of 6 feet apart.



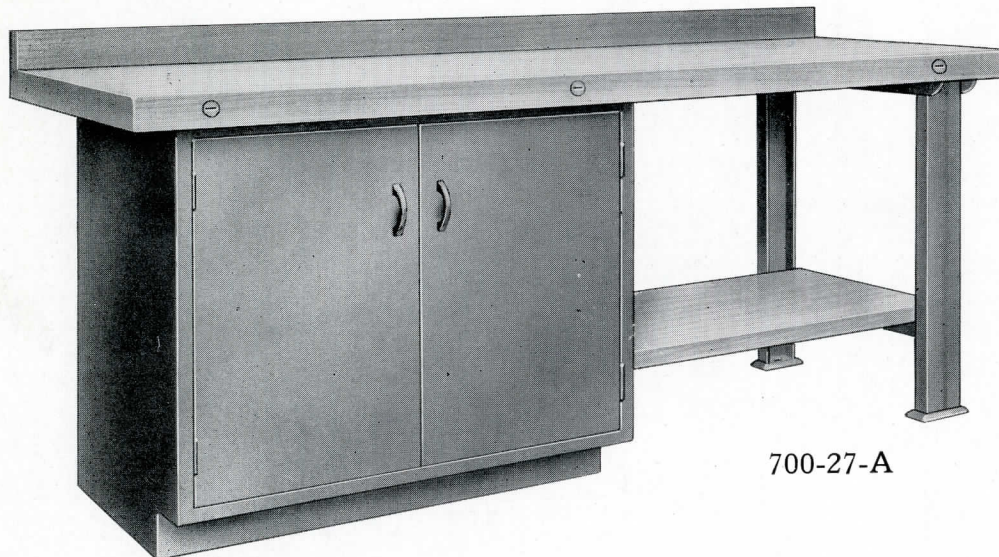
BENCHES WITH  
TYPE "B" LEGS 580-24-DS  
32" HIGH

2-1/4" EDGE GRAIN MAPLE TOP			1-3/4" EDGE GRAIN MAPLE TOP			12 GA. STEEL OVER 1-3/4" WOOD TOP		
#550-24-DS 5' Long 2 Pair Legs 1 Drawer	#565-24-DS 6' Long 2 Pair Legs 1 Drawer	#580-24-DS 8' Long 3 Pair Legs 2 Drawers	#551-24-DS 5' Long 2 Pair Legs 1 Drawer	#566-24-DS 6' Long 2 Pair Legs 1 Drawer	#581-24-DS 8' Long 3 Pair Legs 2 Drawers	#552-24-DS 5' Long 2 Pair Legs 1 Drawer	#567-24-DS 6' Long 2 Pair Legs 1 Drawer	#582-24-DS 8' Long 3 Pair Legs 2 Drawers
#555-30-DS 5' Long 2 Pair Legs 1 Drawer	#570-30-DS 6' Long 2 Pair Legs 1 Drawer	#585-30-DS 8' Long 3 Pair Legs 2 Drawers	#556-30-DS 5' Long 2 Pair Legs 1 Drawer	#571-30-DS 6' Long 2 Pair Legs 1 Drawer	#586-30-DS 8' Long 3 Pair Legs 2 Drawers	#557-30-DS 5' Long 2 Pair Legs 1 Drawer	#572-30-DS 6' Long 2 Pair Legs 1 Drawer	#587-30-DS 8' Long 3 Pair Legs 2 Drawers
#560-36-DS 5' Long 2 Pair Legs 1 Drawer	#575-36-DS 6' Long 2 Pair Legs 1 Drawer	#590-36-DS 8' Long 3 Pair Legs 2 Drawers	#561-36-DS 5' Long 2 Pair Legs 1 Drawer	#576-36-DS 6' Long 2 Pair Legs 1 Drawer	#591-36-DS 8' Long 3 Pair Legs 2 Drawers	#562-36-DS 5' Long 2 Pair Legs 1 Drawer	#577-36-DS 6' Long 2 Pair Legs 1 Drawer	#592-36-DS 8' Long 3 Pair Legs 2 Drawers

NOTE: All benches listed above are 32 inches high, using B type legs. See page 6 for leg data. First number is serial number; second number indicates width of bench in inches. Suffix D specifies drawer; S specifies shelf. To eliminate drawer or shelf, eliminate respective suffix. All

benches are listed with D type drawers, see Page 7. To substitute E or F type drawers, substitute suffix E or F respectively. This style bench can be furnished in practically any length with legs spaced at a maximum of 6 feet apart.





700-27-A

### BENCHES WITH TYPE "B" LEGS 36" HIGH

TYPE A CABINET		TYPE B CABINET		TYPE C CABINET		TYPE D CABINET		TYPE E CABINET	
#700-27-A 6' Long 1 Pr. Legs 1-35" Unit	#710-27-A 8' Long 1 Pr. Legs 1-35" Unit	#701-27-B 6' Long 1 Pr. Legs 1-35" Unit	#711-27-B 8' Long 1 Pr. Legs 1-35" Unit	#702-27-C 6' Long 1 Pr. Legs 1-35" Unit	#712-27-C 8' Long 1 Pr. Legs 1-35" Unit	#703-27-D 6' Long 1 Pr. Legs 1-24" Unit	#713-27-D 8' Long 1 Pr. Legs 1-24" Unit	#704-27-E 6' Long 1 Pr. Legs 1-24" Unit	#714-27-E 8' Long 1 Pr. Legs 1-24" Unit

**NOTE:** All benches listed above are 36 inches high with B type legs. See description of legs below. First number is serial number of bench; second number indicates width of bench in inches. Suffixes A through E inclusive specify type of cabinet unit, see Page 7. This style bench

can be furnished in practically any length, with assorted drawer and cupboard units placed beneath, together or at intervals, with or without the use of legs. All benches listed above have 2 1/4 inch edge grain maple tops.

### BENCHES WITH TYPE "B" LEGS 32" HIGH

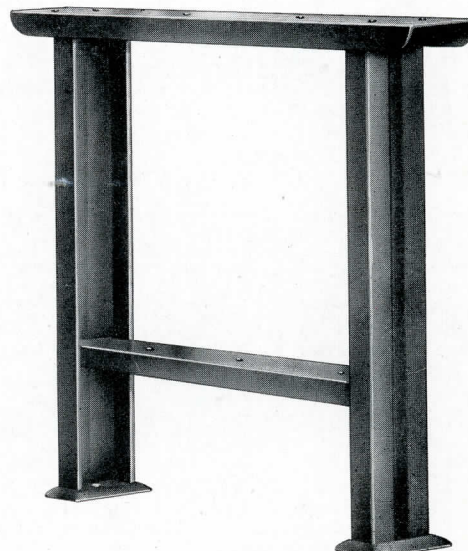
TYPE F CABINET		TYPE G CABINET		TYPE H CABINET		TYPE J CABINET		TYPE K CABINET	
#750-27-F 6' Long 1 Pr. Legs 1-35" Unit	#760-27-F 8' Long 1 Pr. Legs 1-35" Unit	#751-27-G 6' Long 1 Pr. Legs 1-35" Unit	#761-27-G 8' Long 1 Pr. Legs 1-35" Unit	#752-27-H 6' Long 1 Pr. Legs 1-35" Unit	#762-27-H 8' Long 1 Pr. Legs 1-35" Unit	#753-27-J 6' Long 1 Pr. Legs 1-24" Unit	#763-27-J 8' Long 1 Pr. Legs 1-24" Unit	#754-27-K 6' Long 1 Pr. Legs 1-24" Unit	#764-27-K 8' Long 1 Pr. Legs 1-24" Unit

**NOTE:** All benches listed above are 32 inches high with B type legs. See description of legs below. First number is serial number of bench; second number indicates width of bench in inches. Suffixes F through K inclusive specify type of cabinet unit, Page 7. This style bench

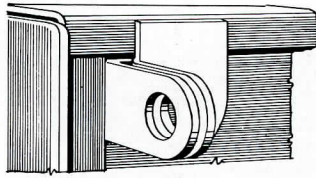
can be furnished in practically any length, with assorted drawer and cupboard units placed beneath, together or at intervals, with or without the use of legs. All benches listed above have 2 1/4 inch edge grain maple tops.

**TYPE B STEEL BENCH LEGS:** Legs shall be formed of 12 gauge steel and shall be 3 1/2 inches across the face. Stretchers shall be 14 gauge electric arc welded between legs. Each leg shall be provided with a rectangular shoe 5 3/8 x 3 1/4 x 1/2 inches high, arc welded to the base of the leg and each shoe shall have one 3/8 inch hole inside the face of the leg for attaching to floor. Top plate shall be 10 gauge formed in a channel, with top of plate formed in a "V" shape to a depth of 3/8 inch. Bench top shall be fastened to legs through six 3/8 inch holes in top plate and drawn up so that the edges of the top plate create spring tension and bind the underside of the counter securely. Legs shall be finished with not less than two coats of olive green baking enamel at not less than 300 degrees Fahrenheit.

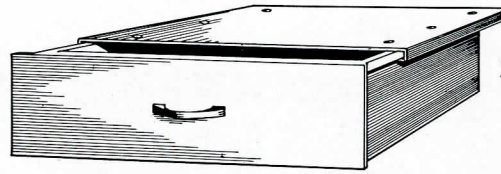
TYPE  
"B"  
LEGS



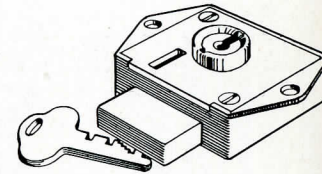




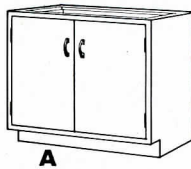
**BENCH PADLOCK HASP:** This assembly is made up of two pieces of 12-gauge steel, formed and punched with 7/16" holes as shown. One part is welded to the side of the drawer cover and the other piece welded to the side of the drawer. This type hasp has the advantage of being entirely beneath the bench top and offers no objectionable or hazardous projection.



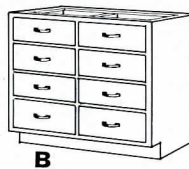
INSIDE DRAWER SIZES			
No.	Width	Depth	Height
D	10-1/4	17-3/4	4-7/8
E	14-1/4	17-3/4	4-7/8
F	18-1/4	17-3/4	4-7/8



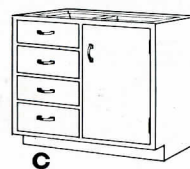
**BENCH DRAWER LOCK:** The lock illustrated above is a rim type unit, 1-5/8" x 1-11/16". It has a solid brass case and bronze cover and is equipped with 6 tumblers. Two keys are regularly provided for each bench drawer equipped with this lock.



A



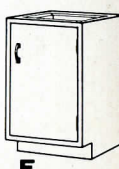
B



C

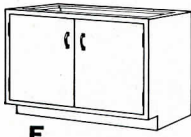


D



E

FOR BENCHES 36" HIGH



F



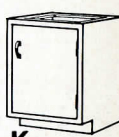
G



H



J



K

FOR BENCHES 32" HIGH

CAT. NO.	CABINET DIMENSIONS INCHES			DRAWERS				CUPBOARDS				SHELVES		
				No. of Drws.	INSIDE SIZE INCHES			No. of Cup- b'ds	INSIDE SIZE INCHES			No. of Shelves	SIZE INCHES	
	Width	Height	Depth		Width	Height	Depth		Width	Height	Depth		Width	Depth
A	35	34¾	22	0				1	34¾	29⅜	21	1	34⅜	20
B	35	34¾	22	8	14⅝	5⅞	18¾	0				0		
C	35	34¾	22	4	14⅝	5⅞	18¾	1	16¾	29⅜	21	1	16⅝	20
D	24	34¾	22	4	20⅝	5⅞	18¾	0				0		
E	24	34¾	22	0				1	23¾	29⅜	21	1	23½	20
F	35	29¾	22	0				1	23¾	24⅜	21	1	34⅜	20
G	35	29¾	22	6	20⅝	7¼	18¾	0				0		
H	35	29¾	22	3	20⅝	7¼	18¾	1	16¾	24⅜	21	1	16⅝	20
J	24	29¾	22	3	20⅝	7¼	18¾	0				0		
K	24	29¾	22	0				1	23¾	24⅜	21	1	20½	20

## METAL BENCH CABINET SPECIFICATIONS

All steel shall be open hearth mild steel, cold rolled, roller leveled to remove pits, and pickled to remove all scale and other impurities. All gauges of sheets and plates shall be U. S. standard.

Drawer and cupboard unit top rails or plates shall be 16-gauge steel, formed to provide exposed facia of required size, and shall act as a strike for doors or drawers. Rails shall be welded to end uprights. End uprights shall be 18-gauge steel, flanged at top and formed down to meet and be welded to top front rails. Front shall be formed in a channel shape, and rear of panel flanged and welded to 18-gauge cabinet back. Uprights shall be fitted with 18-gauge, Z-shaped reinforcements to which the 16-gauge drawer channels shall be welded. Where two or more drawers in width are supplied, vertical members shall be provided to support drawers. When horizontal rails are required between drawers or cupboards, these shall be of 16-gauge steel. Face of member shall be formed so as to provide exposed facia and shall also act as a strike for drawer or door.

Cupboard bottoms shall be 18-gauge steel, flanged at ends and back and welded to uprights and back. Fronts shall be offset to form door strike. Toe space shall be provided beneath all drawer and cupboard units, and the end upright shall be notched to receive a 16-gauge Z-shaped toe rail which shall be welded to the unit bottom and end uprights. Corners shall be reinforced by 10-gauge gusset plates. Backs

shall be 18-gauge steel, welded to return flange of uprights and bottom. Shelves shall be 18-gauge steel, flanged in a channel shape on three sides with 16-gauge angle reinforcement at rear. Shelves shall have 7/8" face and shall be adjustable on 1-1/2 inch centers.

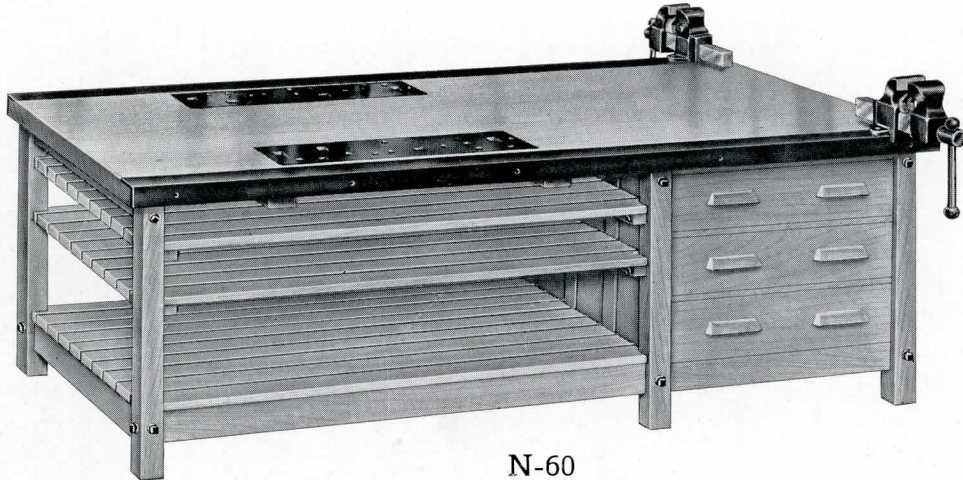
Plate doors shall be 12-gauge steel, notched to receive hinges. Hinges shall be steel, electro-welded to the back of door, and shall be finished same as units.

Drawer heads shall be 20-gauge steel with the sides and bottom flanged inward and top formed in a channel shape. All corners of drawer head shall be acetylene welded, ground smooth. Each drawer shall be provided with a hinged type stop, which can be released manually. Drawer bodies shall be 20-gauge steel with sides formed up at right angles to bottom, and upper edges formed in channel shape. Return edges shall be flanged at the rear to receive 18-gauge back. All drawers shall be mounted on 16-gauge beaded type frictionless channel shaped runners, with runner telescoping inside of channel, welded to vertical cabinet reinforcements.

Drawer pulls shall be pressed steel and shall be 4" long and 5/8" wide. The outer section of the drawer pull shall be provided with a 16-gauge liner, tapped at ends for bolts. Drawer pulls shall be attached by means of bolts from back side of drawer front.

Hinges shall be 10-gauge steel, five-knuckle, finished to match unit.





N-60

**NO. N-60 GENERAL SHOP, PLUMBING, AND SHEET METAL BENCH.** This bench provides three shelves for the storage of metal sheets and the top is equipped with stake plates at one end of the bench. Two combination machinist and pipe vises for such plumbing work as may be done on the table. Six large drawers are provided for the storage of tools and necessary supplies.

**SPECIFICATIONS**

	Length	Depth	Height
Table .....	96	40	32
6 Drawers inside .....	26½	13¼	5

	Length	Depth	Height
2 Shelves .....	56	31	6
Bottom Shelf .....	56	31	8

**Material:** Birch or Maple.

**Finish:** Natural.

**Construction:** Top, 2¼ inches thick, 1½-inch by 2-inch by ⅛-inch angle iron edge reinforcement.

**Weight:** 1000 pounds.

**Equipment:** Two stake plates 30 inches long by 8 inches wide mounted flush in the top, two combination machine and pipe vises.



N-61

**NO. N-61 MACHINE BENCH.** Our No. N-61 Machine Bench is rigidly constructed with the regular Sheldon bolt reinforced features of construction. The solid glued up top with edge grain surface is reinforced with tie-rods and spring washers. The edges are protected by 1½-inch and 2-inch angle irons.

The table is practically indestructible and assures absolute stability. The large, heavily constructed shelf is built to support sheet metal.

**SPECIFICATIONS**

	Length	Depth	Height
Table .....	60	40	32

**Material:** Birch or Maple.

**Finish:** Natural.

**Construction:** Top, 2¼ inches thick.

**Weight:** 325 pounds.

**Equipment:** Two angle irons, edges 1½ inches by 2 inches by ⅛-inch thick.

**NO. N-62 SHEET METAL BENCH.** This table is provided with a bench plate on either side for mounting the various stakes used in forming sheet metal. The top is 2¼-inch thick edge grain surface bolt reinforced with edges protected by 1½-inch and 2-inch angle irons, providing a sharp and rigid corner for bending metal. This table provides three shelves for the storage of metal sheets. Two tables placed end to end will accommodate 9-foot sheets.

**SPECIFICATIONS**

	Length	Depth	Height
Table .....	60	40	32
3 Shelves .....	52	31	6
Bottom Shelf .....	52	31	8

**Material:** Birch or Maple.

**Finish:** Natural.

**Construction:** Top, 2¼ inches thick.



N-62

**Weight:** 420 pounds.

**Equipment:** Two angle irons 1½ inches by 2 inches by ⅛-inch thick; two stake plates 30 inches long by 8 inches wide, mounted flush in the table top.





N-57

**NO. N-57 GENERAL SHOP AND ELECTRICAL**

**TABLE.** This electrical table provides a special mounting for Wiring Boards. The boards are held in working position by disappearing steel channel supports which fold down flush with the table top when not in use. Each position is supplied with a double electrical receptacle in a pedestal base. The wiring boards are 30 inches long and 21 inches high, and twelve of these boards may be stored in the cupboards at the right, which open on both sides of the table. Twelve large general storage drawers provide space for storing most of the electrical equipment, wire, and tools which will be necessary in the work.

**SPECIFICATIONS**

	Length	Depth	Height
Table .....	96	40	32
12 Wiring Boards .....	30	.....	21
2 Wiring Board Cupboards .....	20 $\frac{1}{4}$	34	21
12 Drawers inside .....	18 $\frac{1}{2}$	13 $\frac{1}{4}$	5

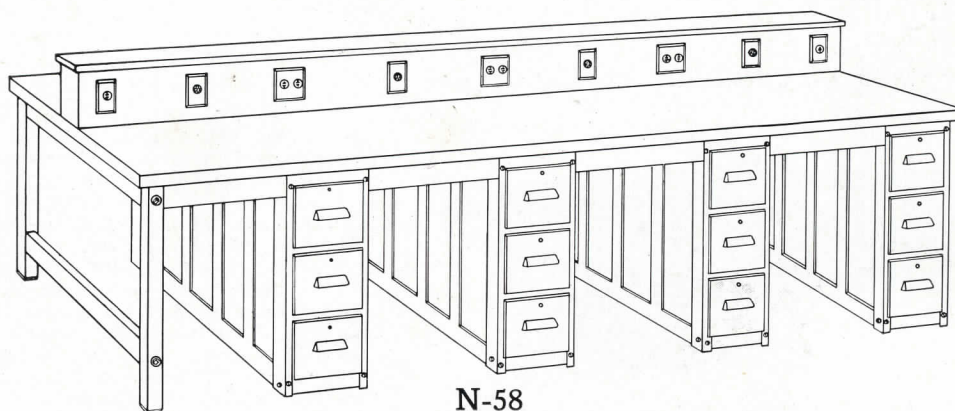
**Material:** Birch or Maple.

**Finish:** Natural.

**Construction:** Heavy bolt reinforced cabinet frame and top. Top 2 $\frac{1}{4}$  inches thick, made of narrow strips glued up with edge grain surface.

**Weight:** 1200 pounds.

**Equipment:** Four wiring board supports, two No. 500 double electric outlets with double receptacle in each side, twelve wiring boards.



N-58

**NO. N-58 ELECTRICAL BENCH.** This bench is designed for the study of electrical circuits and the unit provides for three classes of eight students each with an individual masterkeyed drawer for each student. The table is supplied with a wiring tunnel, and two electrical outlets are provided at each position. A red light at each student area indicates when a circuit is closed. Care should be taken when ordering to indicate type of current and voltage to be used.

**SPECIFICATIONS**

	Length	Width	Depth	Height
Bench overall .....	144	52	.....	34
24 Drawers inside .....	10 $\frac{1}{2}$	.....	20 $\frac{1}{4}$	7

**Material:** Birch and Maple.

**Finish:** Natural.

**Equipment:** Twenty-four masterkeyed locks, and one wiring tunnel with 16 outlets and 8 circuit lights.

**Weight:** 1500 pounds.





N-30-V

**NO. N-30-V MACHINIST'S BENCH.** This bench is particularly adapted for sheet metal and mechanics shops. The top is  $2\frac{1}{4}$  inch edge grain maple and bolt reinforced. The bench illustrated is equipped with one No. 87 machinist vise having 3 inch jaws opening  $4\frac{1}{4}$  inches.

**SPECIFICATIONS**

	Length	Depth	Height
Bench Overall .....	52	22	32
8 Private Drawers Inside .....	14	$14\frac{1}{4}$	4

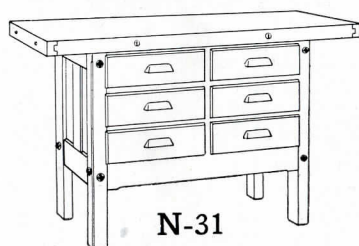
**Material:** Birch and maple.

**Finish:** Natural.

**Equipment:** One No. 87 vise and 8 master-keyed locks.

**Weight:** 250 pounds.

**No. N-30 MACHINIST'S BENCH.**  
Without vise.



N-31

**NO. N-31 MACHINIST'S BENCH.** Similar to No. N-30-V illustrated above except for the elimination of two drawers, masterkeyed locks, and vise.

**SPECIFICATIONS**

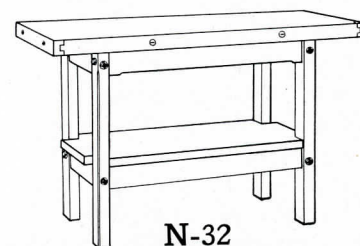
	Length	Depth	Height
Bench Overall .....	52	22	32
6 Private Drawers Inside .....	14	$14\frac{1}{4}$	4

**Material:** Birch and maple.

**Finish:** Natural.

**Weight:** 195 pounds.

**NO. N-31-V MACHINIST'S BENCH.** Equipped with one No. 87 vise.



N-32

**NO. N-32 MACHINIST'S BENCH.** This bench includes no drawers but is fabricated with the same construction features incorporated in the N-31 and N-30-V benches.

**SPECIFICATIONS**

	Length	Depth	Height
Bench Overall .....	52	22	32

**Material:** Birch and maple.

**Finish:** Natural.

**Weight:** 130 pounds.

**NO. N-32-V MACHINIST'S BENCH.** Equipped with one No. 87 vise.



N-544

**NO. N-544 WELDING BENCH** illustrated at left is used extensively in defense and vocational shops. Welding rod troughs are of 14-gauge material  $2\frac{1}{2}$  inches square. Troughs are regularly 32 inches long for 36 inch welding rods. Shorter tubes for rods 12, 14 and 18 inches long can also be furnished. More than two troughs can be supplied upon special order so that different sized rods or rods of different alloys can be completely segregated. Legs are Type-A described on Page 4. The drawer is large enough to hold a variety of welding tips, clamps, jigs, wire brushes, flux supplies and files. The 12-gauge pan top is  $1\frac{1}{2}$  inches deep and requires 32 fire bricks  $4\frac{1}{2} \times 2\frac{1}{2} \times 9$  inches. **Fire bricks are not included with the bench.**

**SPECIFICATIONS**

	Length	Depth	Height
Welding Bench .....	$36\frac{1}{2}$	$36\frac{1}{2}$	$33\frac{1}{2}$
1 General Drawer Inside .....	$14\frac{1}{8}$	$17\frac{3}{4}$	$4\frac{7}{8}$
2 Welding Rod Tubes .....	32	$2\frac{1}{2}$	$2\frac{1}{2}$

**Material:** Steel.

**Finish:** Olive green enamel.

**Weight:** 215 pounds.

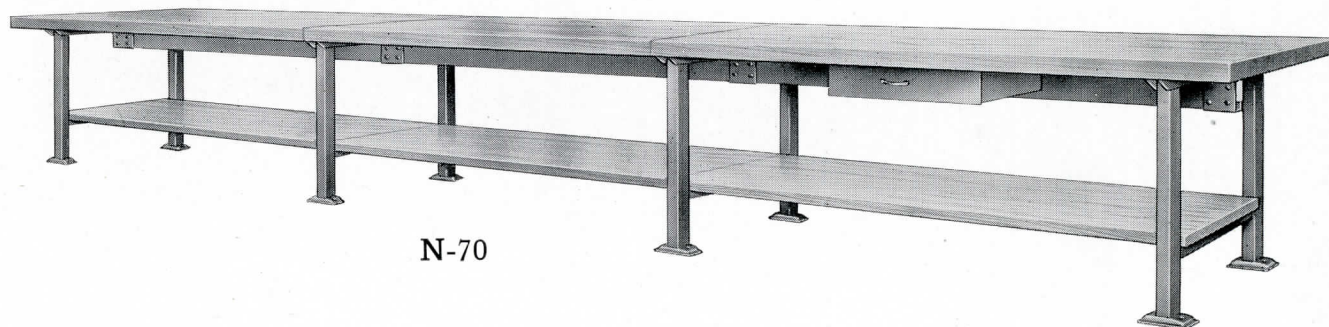
**NO. N-545** same as above but without drawer.

**NO. N-546** same as above but without welding rod tubes.

**NO. N-547** same as above but without drawer and welding rod tubes.

**NO. N-548** same as above but with steel top.





N-70

**NO. N-70 PARACHUTE PACKING BENCH.** The 19 foot bench illustrated above is used in Army and Navy air stations for parachute folding and repairs. The top is 1¼ inch maple with both top and bottom edges rounded to prevent fabric snagging. The top is furnished in three equal sections with joint edges carefully fitted and joined with ½ inch splines. The assembled top is smooth, hard, and treated with three coats of moisture resisting clear varnish. The finish is natural in color and therefore least subject to unsightly scars from scratches and abrasion. Type-A legs are used (See Page 4) and top plate ends and edges are carefully finished and rounded smooth to obviate fabric snagging. The longitudinal stringer between pairs of legs is located in

the center of the table away from table ends and edges. Finally, the table top overhangs top plate edges 2½ inches to further remove the possibility of snagging. Two drawers are provided, one on each side near the ends for supplies.

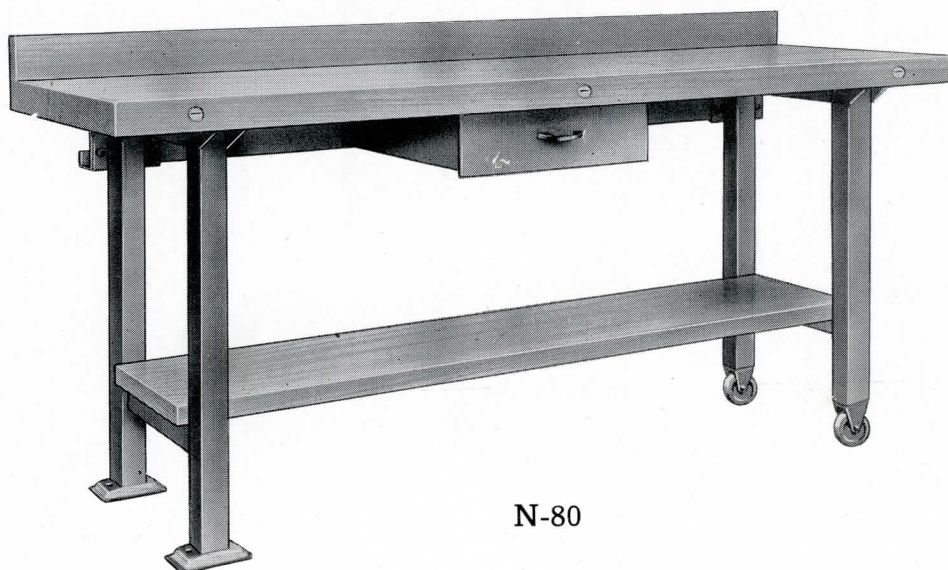
#### SPECIFICATIONS

	Length	Width	Height
Bench Overall .....	228	36	32
Two Drawers Inside.....	18¼	17¾	4⅞
One Shelf .....	221	22⅜	10

**Material:** Top and shelf, 1¼ inch maple.

**Finish:** Top and shelf, natural. Legs, olive green.

**Weight:** 900 pounds.



N-80

**NO. N-80 MOVABLE BENCH.** The bench illustrated above is the same as the No. 150-24-DS listed on Page 3 except for the addition of heavy duty casters on one pair of legs. This bench is extremely adaptable to many shop uses, particularly when working facilities have to be moved to the field of repair or activity. Type-A legs described and illustrated on Page 4 are used for this unit. The top is 2¼ inch bolt reinforced edge grain maple, but the bench can be furnished with a steel or transite top under additional numbers listed below. The shelf is 1¼ inch maple.

#### SPECIFICATIONS

	Length	Width	Height
Bench Overall .....	60	24	32
One Drawer Inside.....	10¼	17¾	4⅞
One Shelf .....	45	14⅞	10

**Equipment:** Two heavy duty metal casters.

**Material:** Top and shelf, maple.

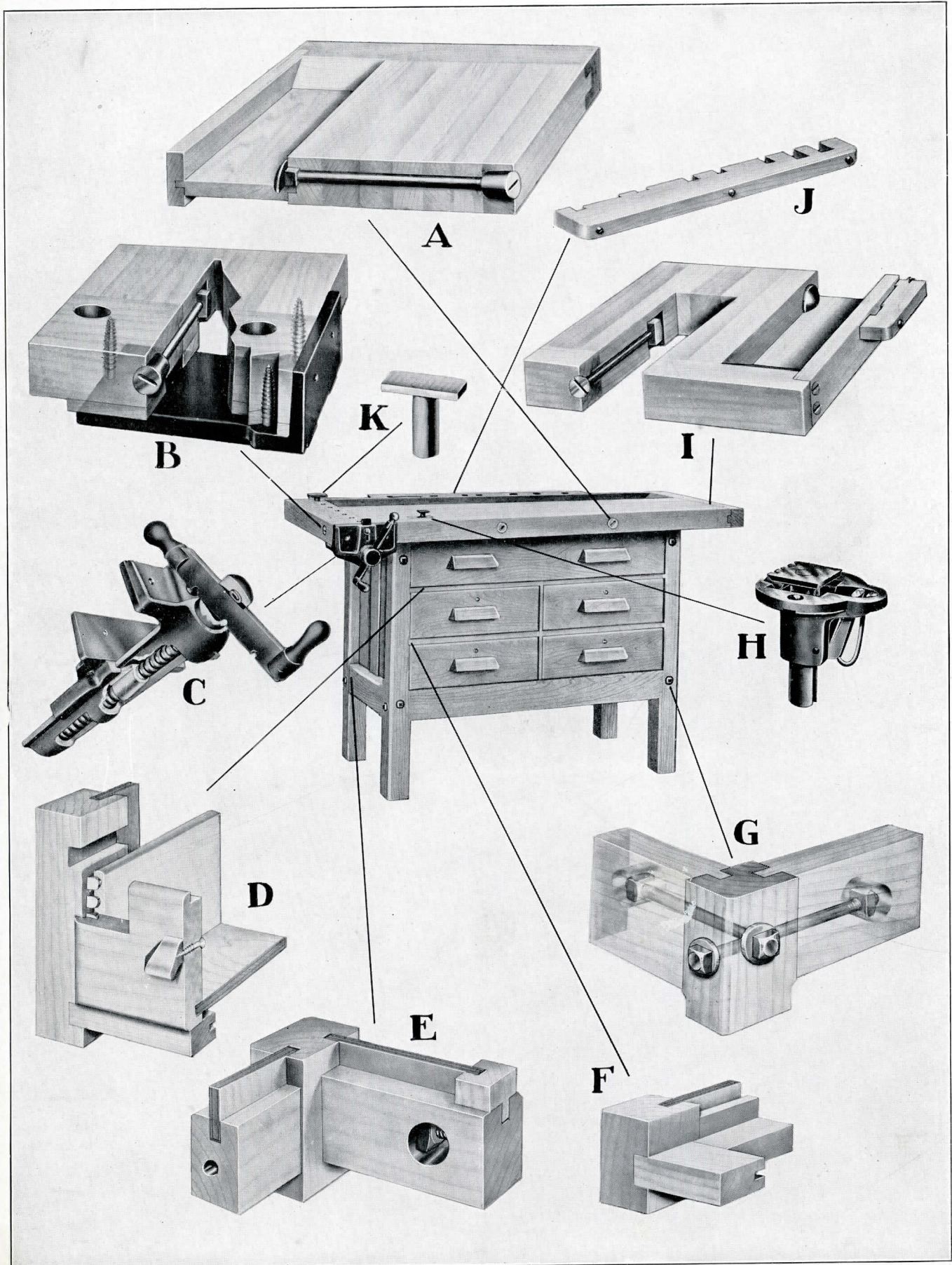
**Finish:** Top and shelf, natural. Legs, olive green.

**Weight:** 250 pounds.

**NO. N-81 MOVABLE BENCH.** Same as above with 1⅞ inch 12-gauge steel top.

**NO. N-82 MOVABLE BENCH.** Same as above with 2¼ inch transite top.







## *Sheldon Manual Training Table Construction*

A Shop Bench used by amateur workmen must be practically fool-proof. It must be built to endure for a generation such battering, wrenching, straining, and other abuse as only the untrained schoolboy can give. Every detail of its construction involving material, workmanship, design, and equipment must be calculated to exceed the destructive capacity of the most careless student. With 98,000 benches in use throughout the country; 20,000 on repeat orders from leading educational centers there is proof that Sheldon Benches have become a standard of design, and economy. E. H. Sheldon & Company are today building a stronger, heavier, and better bench than ever before.

### TOPS

**A**—Heavy bolts 14 inches long with fillister head nuts 1 inch in diameter reinforce the heavy top with edge grain working surface made of 2½-inch Maple strips, finished to 2¼ inches thick, and glued with waterproof glue, which makes the top joints stronger than the wood itself.

**B**—The vise end of the bench top is reinforced with a heavy 5-inch bolster firmly secured to the bench top with a mortised and tenoned joint anchored by a 7-inch bolt with 1-inch flush fillister head nut. The stationary or back jaw of the iron vise overlaps this bolster, and is attached to both bolster and main portion of the top by heavy screws giving a solid indestructible foundation for the vise.

### VICES

**C**—Woodworking vises form such an important part of the bench that they are manufactured by E. H. Sheldon & Company in their own shops in order to guarantee their strength, durability, and satisfactory operation. The Sheldon Screw and Rapid Acting Vises are illustrated on pages 25 and 26.

### DRAWERS

**D**—D shows one corner of a work bench drawer with heavy lip front cut from 1-inch hardwood, and sides cut from ¾-inch hardwood, three-ply veneer non-split hardwood bottom, grooved into the front, sides, and back. Drawers that contain heavy tools and are jerked open and shut many

times a day must be especially well made. The dovetailed drawer corner construction is proof against such strains.

**F**—F shows the heavy stock and sturdy construction used in the drawer guides, and division rails made to withstand the heaviest load, which the storing of Industrial equipment may place upon them.

### BOLTED FRAME

**E**—E shows the heavy mortised and tenoned joints used with extra heavy leg and rail material, ¾-inch solid panels incorporated in the Sheldon frame construction.

**G**—G shows a reverse view of E, illustrating the heavy tie bolts with provision for tightening, which are used to supplement the heavy mortised and tenoned joints held with the best and strongest glue.

### BENCH STOP

**H**—H shows the quick set bench stop installed in the Sheldon bench, constructed with malleable iron body, and steel head and stem, which makes this stop practically indestructible. This stop can be adjusted to any elevation up to 2 inches.

### BOLSTERED ENDS

**I**—I shows the rear end of the work bench top, illustrating the 2½-inch bolster secured with a mortise and tenon joint anchored with 4-inch bolt. The end securely screwed to the retaining rim at the back of the tool recess.

### TOOL RACK

**J**—J shows the slotted tool rack securely fastened to the table top with 2¼-inch wood screws, and designed to hold screw drivers, chisels, saws, etc., with which each table is generally equipped.

Throughout all of these features and in many other details the Sheldon Bench has been strengthened and improved, thus keeping it a leader in sturdy, efficient, and economical equipment—an ever present example of fine workmanship.



## Wood Bench Specifications

**MATERIAL:** All material for legs, rails, ends, stretchers and stringers shall be select hardwood, birch or maple, kiln dried to a moisture content of not more than 6% by weight. Tops shall be kiln dried to a moisture content of not more than 4% by weight.

**TOPS:** (See Page 2.)

**FILLISTER HEAD TIE RODS:** When so specified tops shall be reinforced with 7/16" diameter tie rods. Rods shall be fitted at each end with fillister head nuts flush with the bench top edges.

**SPRING TIE RODS:** When so specified tops shall be reinforced with 7/16" diameter tie rods. Rods shall extend to within 1/2" of the edge of the bench top on each side. They shall have nuts and heavy leaf spring washers not less than 1-1/2" wide and 2-1/2" long at each end, so designed as to give constant flexible pressure and arranged so as to be concealed, at the same time providing accessibility of nuts for wrench adjustment.

**BENCH LEGS AND FRAME:** (For benches similar to No. N-61 Page 8.) Legs shall be 2-3/4" x 2-1/4", and the entire frame shall be fully bolt reinforced, using 3/4" thick tenons and 4" x 7/16" diameter machine bolts and nuts. Front and end rails shall be 3-1/2" wide and 1-5/8" thick. Stretchers between legs, and stringers between pairs of legs shall be 3-1/2" wide and 1-5/8" thick. Corners on all legs, rails, stringers and stretchers shall be neatly chamfered. Top shall be attached to frame by means of 1/2" x 4-1/2" lag screws.

**BENCH LEGS AND FRAME:** (For benches similar to No. N-10 Page 15.) Legs shall be 3" x 1-5/8", mortised and tenoned into top and bottom sills, same size. Stretchers shall be 5" x 1-5/8" doweled into and bolted to legs with 4" x 7/16" machine bolts and nuts. Drawer runners shall be dadoed into ends. Top shall be attached to frame by means of 4" x 1/2" lag screws. Legs and stretchers shall be neatly stop chamfered.

**BENCH LEGS AND FRAME:** (For benches similar to No. N-61 Page 17.) Legs shall be 2-3/4" x 2-1/4" and the

entire frame shall be fully bolt reinforced, with ends and back paneled. All rails shall be 3-1/2" wide and 1-5/8" thick. Corners on all legs and rails shall be neatly stop chamfered. Top shall be attached to frame by means of 1/2" x 4-1/2" lag screws.

**BENCH DRAWERS:** (For benches similar to No. N-10 Page 15.) Drawer fronts, backs and sides shall be 3/4" thick with sides dovetailed into fronts and backs. Bottoms shall be 1/4" thick grooved into sides as well as fronts and backs 1/4", making full boxed in construction.

**BENCH DRAWERS:** (For benches similar to No. N-16 Page 17.) Drawer front shall be 13/16" thick, lipped on all four sides. Sides shall be 9/16" thick with backs 1/2" thick. Sides shall be dovetailed into fronts, and backs shall be grooved into sides, glued and nailed. Bottoms shall be 1/4" thick, grooved into sides as well as fronts and backs 1/4", making full boxed in construction.

**SOLID BENCH SHELVES:** (See Page 2.)

**SLATTED BENCH SHELVES:** (For benches similar to No. N-62 Page 8.) Shelf shall be made up of slats 13/16" thick and 3-1/2" wide screwed onto 1-5/8" square shelf supports with No. 12 x 1-1/2" screws through countersunk holes. Edges and ends of slats shall be rounded. Shelf supports shall be bolted to legs with 7/16" x 4" machine bolts.

**STAKE PLATE:** (For benches similar to No. N-60 and N-62 Page 8.) The overall dimensions shall be 29-1/4" long, 7-9/16" wide and 1-15/16" overall thickness. Material shall be cast iron and the surface and all edges shall be milled. Six non-graduated and five graduated stake sockets shall be provided in the top of the plate. Each end shall be provided with 1/2" hole for attaching plate to bench top with 1" x 1" recess for installing bolt heads flush with the surface of the stake plate.

**FINISH:** Finish on wood shall be natural with not less than two coats of varnish. Wood tops shall be oiled finish unless otherwise specified. Angle irons, and stake plates shall be finished with black enamel.





N-10

**NO. N-10 SHOP BENCH.** No open frame Shop Bench has been more widely popular in size, construction and equipment than our No. N-10 shown above. It has met the requirements and pocketbooks of many thousands of purchasers for the past thirty years, and is still our most popular. All of these features shown on page 12 are included in the top construction detail. The frames are made of extra heavy material with pinned, mortised and tenoned joints; girts full 5 inches wide, doweled and bolted in with half-inch bolts and washers, all artistically chamfered and finished in natural maple color. It should be noted in any of these benches the position of the vise and the method by which it is mounted on the heavy bolster carrying the metal dog, providing a means for clamping work such as chair seats, table tops, and similar projects between the bolster and vise dog.

**SPECIFICATIONS**

	Length	Width	Depth	Height
Bench Overall .....	52	22	....	32
1 Drawer inside .....	28½	....	17¼	5

**Material:** Birch and Maple.

**Finish:** Natural.

**Equipment:** As shown. One metal dog, one No. 3 rapid acting vise or one No. 10 continuous screw vise, one quick set bench stop, and one 26 inch tool rack. Top 2¼ inch edge grain maple. Specify vise desired.

**Weight:** 150 pounds.

**NO. N-10-A BENCH.** Without Drawer.



N-11

**NO. N-11 SHOP BENCH.** Similar to the N-10 except for length. This bench is frequently used in Grade Schools, or in Junior and Senior High School shops where floor space is limited. The same sturdy Sheldon construction is incorporated in this as in the N-10.

**SPECIFICATIONS**

	Length	Width	Depth	Height
Table Overall .....	42	22	....	32
1 Drawer inside .....	20½	....	17¼	5

**Material:** Birch and Maple.

**Finish:** Natural.

**Equipment:** As shown. One metal dog, one No. 3 rapid acting vise, or one No. 10 continuous screw vise, and one quick set bench stop. Top 2¼ inch edge grain maple. Specify type vise desired.

**Weight:** 125 pounds.

**NO. N-11-A BENCH.** Without Drawer.



N-12

**NO. N-12 SHOP BENCH.** Basically the same as the N-10 except for added length to accommodate the tail vise shown on the end. This bench is used extensively in advanced industrial arts courses.

**SPECIFICATIONS**

	Length	Width	Depth	Height
Table Overall .....	55	22	....	32
1 Drawer inside .....	28½	....	17¼	5

**Material:** Birch and Maple.

**Finish:** Natural.

**Equipment:** As shown. One metal dog, two No. 3 rapid acting vises, or two No. 10 continuous screw vises, one quick set bench stop, and one 26 inch tool rack. Top 2¼ inch edge grain maple. Specify type vise desired.

**Weight:** 185 pounds.

**NO. N-12-A BENCH.** Without Drawer.





N-14

**NO. N-14 TWO STUDENT SHOP BENCH.** This bench accommodates two students. The heavy bolt reinforced frame and top construction of this unit, together with its size and arrangement make it particularly desirable and economical where a double drawer bench is required. Your attention is called to pages 12 and 13 where you will find details concerning the construction of Sheldon Shop Benches.

**SPECIFICATIONS**

	Length	Width	Depth	Height
Bench Overall .....	52	36	....	32
2 Drawers Inside .....	28½	....	14¼	5

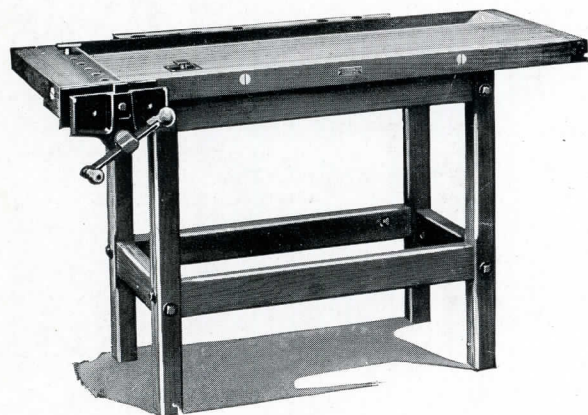
**Material:** Birch and Maple.

**Finish:** Natural.

**Equipment:** As shown. Two No. 3 rapid acting or No. 10 continuous screw vises, two quick set bench stops, and two metal dogs. Top 2¼ inch edge grain maple. Specify type vise desired.

**Weight:** 270 pounds.

**NO. N-14-A BENCH.** Without drawers.



N-13

**NO. N-13 SHOP BENCH.** Where an exceptionally strong bench is required the N-13 meets the most rigid specification. In all, twenty ½ inch machine bolts are used to reinforce the frame of this unit.

**SPECIFICATIONS**

	Length	Width	Height
Bench Overall .....	52	22	32

**Material:** Birch and Maple.

**Finish:** Natural.

**Equipment:** As shown. One No. 10 continuous screw vise or one No. 3 rapid acting vise, one quick set bench stop, one metal dog, one 26 inch tool rack. Top 2¼ inch edge grain maple. Specify type vise desired.

**Weight:** 150 pounds.



N-15

**NO. N-15 TWO STUDENT SHOP BENCH.** This bench is the same as the No. N-14 except for the addition of the center double tool rack to take the place of the general tool drawer.

**SPECIFICATIONS**

	Length	Width	Height
Bench Overall .....	52	36	32
Tool Rack .....	33½	....	7

**Material:** Birch and Maple.

**Finish:** Natural.

**Equipment:** As shown. Two No. 3 rapid acting or two No. 10 continuous screw vises, two quick set bench stops, two metal dogs, and two 26 inch slotted tool holders mounted on tool rack. Top 2¼ inch edge grain maple. Specify type vise desired.

**Weight:** 230 pounds.

**NO. N-15-A BENCH.** Without tool rack.



## NO. N-16 FOUR CLASS SHOP BENCH

On this page we introduce our cabinet type Shop Benches which provide private lockers in the table for individual students. In his first lesson the average grade pupil requires forty-five minutes to sharpen a blade from ordinary dullness to a razor edge. The edge thus produced is his, and should be protected. Give it to another pupil to use and dull, and experience shows that the first pupil loses his interest at once. Destruction or loss of a boy's work left exposed during his absence will have a similar result, and practically destroy the effectiveness of the course. To assure the efficient utilization of the boy's time, he should have a locker in which he may keep safe, the edges, tools and other articles which may strictly be considered his. Furthermore, a private locker saves time, as the pupils may go at once to their bench, rather than waste time standing in a line before wall lockers. The No. N-16 Table has four private lockers with standard masterkeyed locks, and one large drawer furnishes convenient storage space for general tools. This design is particularly attractive. Its unusual popularity has established it as a standard by which to judge.

### SPECIFICATIONS

	Length	Width	Depth	Height
Table .....	52	22	....	32
1 General Tool Drawer				
inside ....	30½	....	14¼	4
4 Private Drawers				
inside ....	13½	....	14¼	4

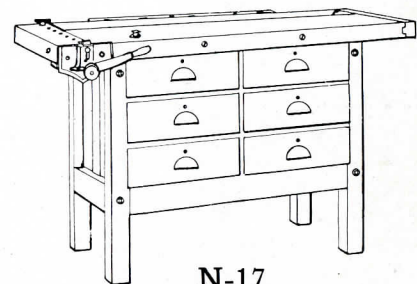
Weight: 215 pounds.



N-16

**Equipment:** As shown. One No. 3 rapid acting vise, one metal dog, one quick set bench stop, 26-inch tool rack, and four masterkeyed locks.

May be equipped with any of the 7-inch type of vises shown on page 25. The No. 10 vise substituted without additional cost.



N-17

**NO. N-17 SIX CLASS SHOP BENCH.** Like N-16 except two individual drawers with locks substituted for the top general tool drawer.

**NO. N-18 SIX CLASS SHOP BENCH.** The bench shown is particularly adapted for vocational work in the grades. The drawers are large enough to accommodate not only the individual tools used by the students, but also most of the models made in general grade work. The student's entire outfit can be kept in this locker, thus avoiding the distribution of the pupils' work when classes change. Over three thousand of these tables are in use in the schools in Detroit, Michigan, alone.

### SPECIFICATIONS

	Length	Width	Depth	Height
Table .....	42	22	....	32
6 Private Drawers				
inside .....	9¼	....	14¼	6

Weight: 210 pounds.

**Equipment:** As shown: One No. 10 vise, one quick set bench stop, one metal dog, and six masterkeyed locks. In ordering specify vise number desired.

With No. 10 as shown; or No. 3 vise. Specify vise by number when ordering.

**No. N-19:** Is the above bench with eight 4-inch drawers instead of six as shown.



N-18





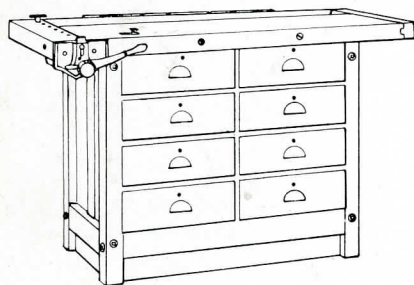
N-20

**NO. N-20 SIX CLASS SHOP BENCH.** Unusually extensive private locker space characterizes this Shop Bench. Six private drawers controlled by masterkeyed locks and one general tool drawer provide all the storage space necessary for six pupils. This table, like the others, is as solid as the log from which it comes. Do not overlook the fact that the special construction and material shown on page 12, and the powerful vise unconditionally guaranteed are elements of strength which mean added years of satisfactory service.

**SPECIFICATIONS**

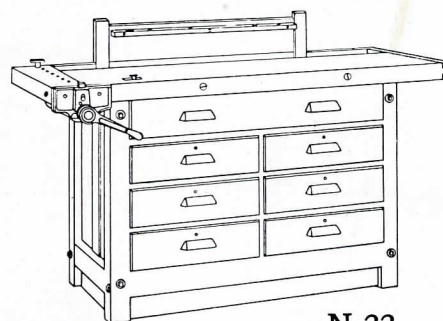
	Length	Width	Depth	Height
Table .....	52	22	....	32
General Tool Drawer inside	30½	....	14¼	4
6 Private Lockers inside	14	....	14¼	4

**Weight: 270 pounds.**



N-21

**NO. N-21 SHOP BENCH.** Like No. N-20 except two individual drawers with locks are substituted for the top general tool drawer.



N-22

**NO. N-22 INSTRUCTOR'S SHOP BENCH.** This bench is also used as a student bench for advanced shop work.

**SPECIFICATIONS**

	Length	Width	Depth	Height
Bench Overall .....	64	24	....	32
1 General Tool Drawer inside	36½	....	17¼	4
6 Private Lockers inside	17	....	17¼	4

**Material:** Birch and Maple.

**Finish:** Natural.

**Equipment:** As shown. One No. 6 rapid acting vise or one No. 12 continuous screw vise, one quick set bench stop, one metal dog, one 34 inch tool rack, six masterkeyed locks. Top 2¼ inch edge grain maple. Specify type vise desired.

**Weight:** 325 pounds.

**NO. N-23 INSTRUCTOR'S SHOP BENCH.** This bench contains six drawers for private equipment and a cupboard divided by a sliding vertical partition, with tool racks mounted on each side.

**SPECIFICATIONS**

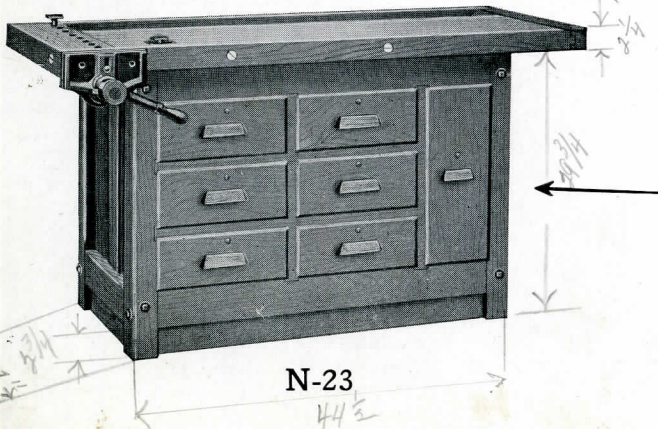
	Length	Width	Depth	Height
Bench Overall .....	64	24	....	32
1 General Tool Locker inside	....	6	19	20
6 Private Drawers inside	13½	....	17¼	5

**Material:** Birch and Maple.

**Finish:** Natural.

**Equipment:** As shown. One No. 6 rapid acting vise or one No. 12 continuous screw vise, one quick set bench stop, one metal dog, and six masterkeyed locks. Top 2¼ inch edge grain maple. Specify type vise desired.

**Weight:** 315 pounds.



N-23



# NO. N-24 FOUR CLASS DOUBLE SHOP BENCH

The outstanding virtue of the double table is a possible economy in the outlay for general tools and a saving of room space. The table here is similar to our No. N-16 but double for two pupils. The same amount of working space is provided for each pupil as with the single table, but with only one tool recess.

## SPECIFICATIONS

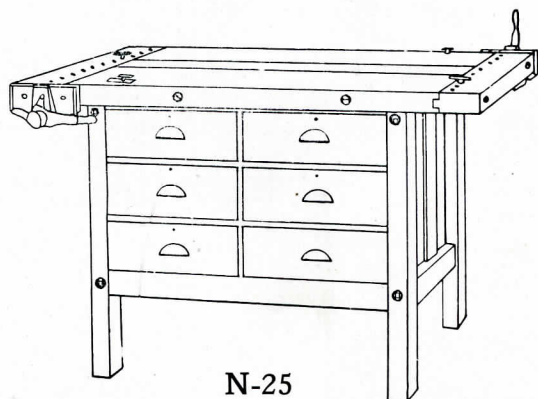
	Length	Width	Depth	Height
Table .....	52	36	.....	32
2 General Tool Drawers inside ..	30½	....	14¼	4
8 Private Lockers inside ..	14½	....	14¼	4

Weight: 335 pounds.

Equipment: As shown: Two No. 3 vises, two metal dogs, two bench stops, and eight masterkeyed locks. May be equipped with any of the 7-inch type of vises shown on page 25. The No. 10 vise substituted without additional cost.



N-24



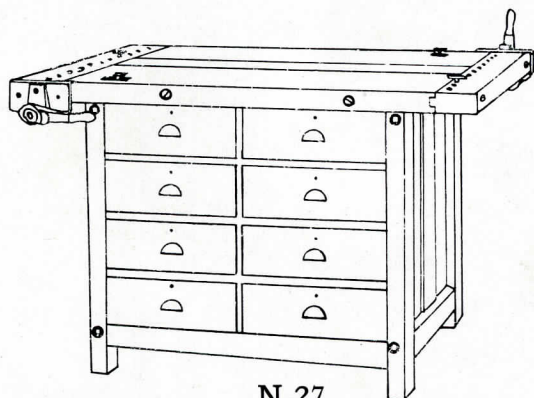
N-25

NO. N-25 SHOP BENCH. Same as N-24 except two individual drawers with locks substituted for the top general tool drawer on each side.  
Weight: 375 pounds.



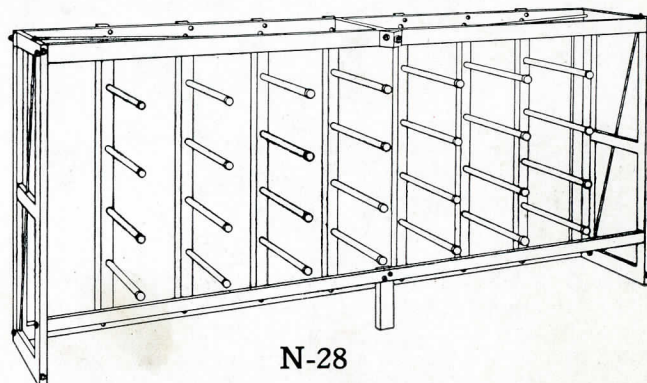
N-26

NO. N-26 SHOP BENCH. Same as N-24 except for the addition of two private drawers with locks on each side.  
Weight: 400 pounds.



N-27

NO. N-27 SHOP BENCH. Same as N-26 except two individual drawers with locks substituted for the top general tool drawer on each side.  
Weight: 315 pounds.

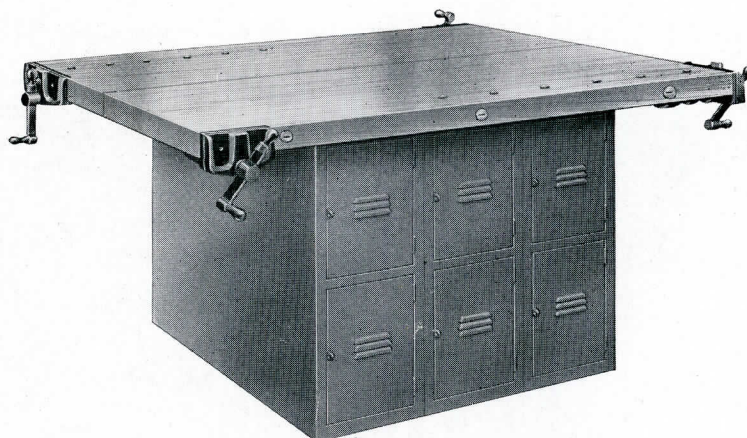


N-28

NO. N-28 LUMBER RACK. Frame of maple with 1¼ inch iron pipe lumber supports and 4 x 4 corner posts. This rack is self-sustaining and need not be anchored to the floor or ceiling.

Overall .....	Length	Width	Height
Weight: 2000 pounds.	156	22	72





N-95

**NO. N-95 FOUR STUDENT SHOP BENCH.** The unit illustrated above carries out the idea of providing private locker space with metal compartments rather than wood drawers. In all 12 lockers are furnished—six on each side—each locker equipped with a padlock hasp and friction catch. The top is  $2\frac{1}{4}$  inch edge grain maple, bolt reinforced. Vises are the No. 10 Continuous Screw type illustrated and described on Page 25. Padlocks will be furnished at additional cost.

**SPECIFICATIONS**

	Length	Depth	Height
Bench Overall .....	64	50	32
12 Lockers .....	12	21	15

**Equipment:** 4 No. 10 Vises; 2 metal bench dogs; 12 padlock hasps; 12 friction catches.

**NOTE:** The benches listed above can be equipped with other vises illustrated and described on pages 25 and 26 at additional cost. All benches numbered above have No. 10 Continuous Screw vises. If any other vise is desired, the bench top must be modified in certain respects. Factory quotations on such modifications will be provided upon request.

**Material:** Base, metal. Top,  $2\frac{1}{4}$  inch edge grain maple.

**Finish:** Base, olive green. Top, natural.

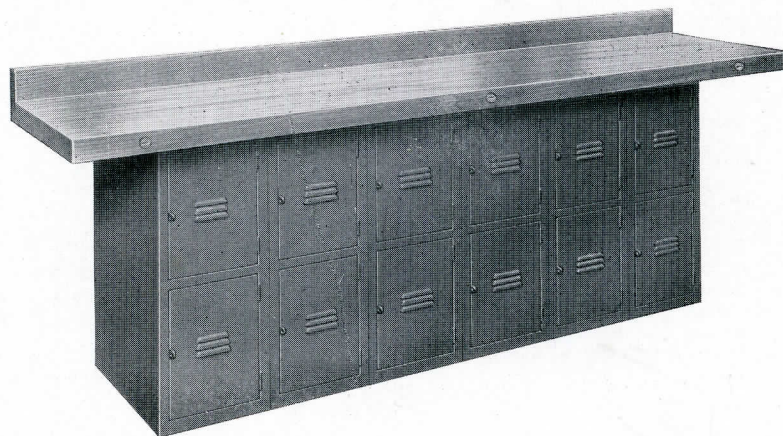
**Weight:** 690 pounds.

**NO. N-96 FOUR STUDENT SHOP BENCH.** Same as bench illustrated, but with 12 masterkeyed locks instead of padlock hasps.

**NO. N-97 FOUR STUDENT SHOP BENCH.** Same as bench illustrated, but each end of top equipped with a 5 inch bolster and provision made for bench dog sockets at each vise position.

**Equipment:** 2 additional metal bench dogs.

**NO. N-98 FOUR STUDENT SHOP BENCH.** Same as No. N-97 but with 12 masterkeyed locks instead of padlock hasps.



N-99

**NO. N-99 WALL BENCH.** This bench has lockers identical to those shown on the No. N-95 at the top of the page. The bench can be extended to practically any length by the addition of extra six-locker units. Each locker is provided with a padlock hasp and friction catch. The top is  $2\frac{1}{4}$  inch edge grain maple, bolt reinforced.

**SPECIFICATIONS**

	Length	Width	Height
Bench Overall .....	96	24	32
12 Lockers .....	12	21	15

**Equipment:** 12 padlock hasps; 12 friction catches.

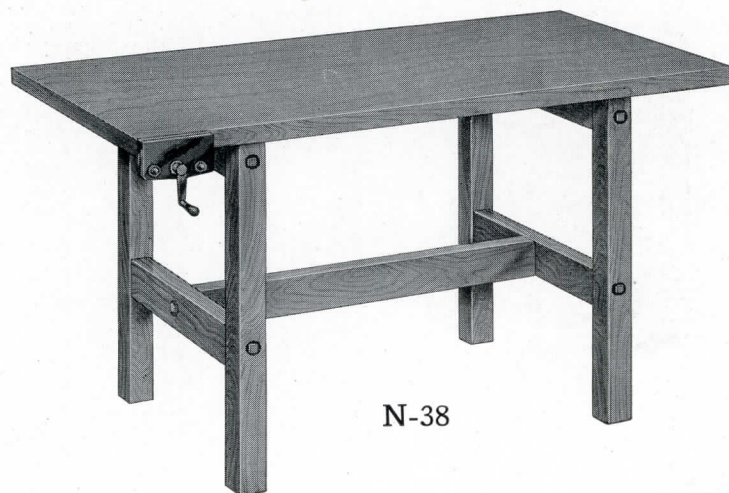
**Material:** Base, metal. Top,  $2\frac{1}{4}$  inch edge grain maple.

**Finish:** Base, olive green. Top, natural.

**Weight:** 525 pounds.

**NO. N-100 WALL BENCH.** Same as bench illustrated, but with 12 masterkeyed locks instead of 12 padlock hasps.





N-38

**NO. N-38 MANUAL TRAINING BENCH.** This unit is designed for Elementary and Kindergarten grades. While the bench itself is light, the construction methods used in fabricating it are in keeping with Sheldon methods of bolt reinforcing the frame. This bench is equipped with one No. 85 vise having a 5 inch jaw opening  $5\frac{1}{4}$  inches.

**SPECIFICATIONS**

	Length	Depth	Height
Bench .....	42	24	25

**Equipment:** One No. 85 vise.

**Material:** Birch and maple. Top,  $1\frac{3}{4}$  inches thick.

**Finish:** Natural.

**Weight:** 100 pounds.



N-39

**NO. N-39 MANUAL TRAINING BENCH.** At left is illustrated a different design, style and size for Elementary and Kindergarten crafts courses offered in the lower grades. The top is bolstered on both ends and the bench has the further advantage of having a tool recess and back board. This bench is similar in construction to our regular line of shop benches shown on preceeding pages. Equipment includes one No. 85 vise having a 5 inch jaw opening  $5\frac{1}{4}$  inches.

**SPECIFICATIONS**

	Length	Depth	Height
Bench .....	48	22	25

**Equipment:** One No. 85 vise.

**Material:** Birch and maple. Top,  $1\frac{3}{4}$  inches thick.

**Finish:** Natural.

**Weight:** 105 pounds.



N-40

**NO. N-40 MANUAL TRAINING BENCH.** This is a double table for Elementary and Kindergarten classes and is similar in construction to the N-38 shown at the top of the page. It has the advantage of being equipped with two large drawers and a lower storage shelf. Two No. 85 vises are provided, one on each side. Vise jaw is 5 inches with opening  $5\frac{1}{4}$  inches.

**SPECIFICATIONS**

	Length	Depth	Height
Bench .....	42	30	25
2 Drawers Inside .....	$20\frac{1}{2}$	$10\frac{1}{4}$	5
1 Shelf .....	26	20	10

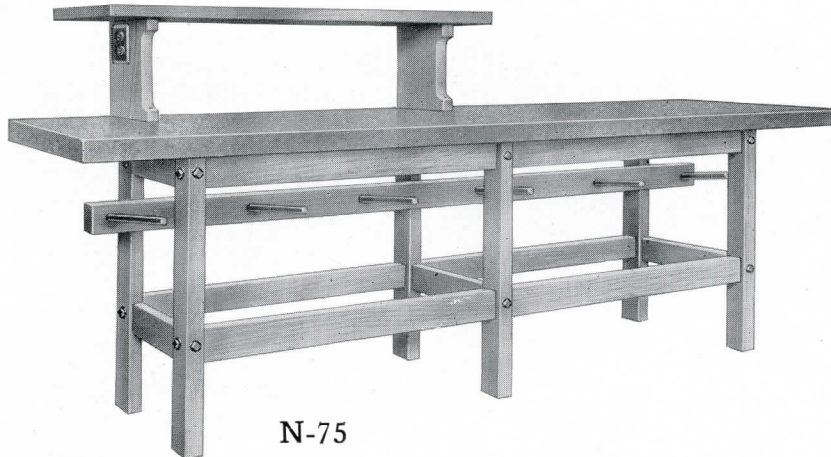
**Equipment:** Two No. 85 vises.

**Material:** Birch and maple. Top,  $1\frac{3}{4}$  inches thick.

**Finish:** Natural.

**Weight:** 105 pounds.





N-75

**NO. N-75 GLUE AND STAIN BENCH.** The unit illustrated above is designed to meet a variety of shop requirements. In small shops it can also be used as an assembly bench. The top is heavy galvanized iron. Six  $\frac{3}{4}$  inch iron clamp rods flanged from the back are provided for storage. Each rod will hold four clamps furnishing total accommodations for two dozen clamps. The entire table frame is bolt reinforced. Top shelf is provided with a duplex receptacle for plugging in electric double-boiler glue pot.

**SPECIFICATIONS**

	Length	Width	Height
Bench Overall .....	96	24	32
Shelf .....	48	8	12

**Equipment:** Six  $\frac{3}{4}$  inch iron clamp rods with flanges; one duplex receptacle; one  $1\frac{1}{4}$  inch maple shelf with 2 uprights.  
**Top:** Heavy galvanized iron over wood core.  
**Material:** Birch and maple.  
**Finish:** Natural.  
**Weight:** 295 pounds.



N-43

**NO. N-43 HOME WORK BENCH.** This unit is a light, inexpensive bench and is not recommended for school use. The vises have steel screws traveling in iron nuts housed in the back jaw. Vise jaws are wood and the handle is counter-balance type like that used on No. 10 vises. Jaws are 12 inches wide and open 8 inches.

**SPECIFICATIONS**

	Length	Depth	Height
Bench .....	48	22	32

**Equipment:** Two wood vises; two metal bench dogs.  
**Material:** Birch and maple. Top,  $1\frac{3}{4}$  inches thick.  
**Finish:** Natural.  
**Weight:** 120 pounds.

**NO. N-44 BENCH.** Same as above but with one vise.

**NO. N-76 BENCH.** Same as bench illustrated without clamp rods, but with full length  $1\frac{1}{4}$  inch lower shelf making the bench more adaptable as a paint bench.

**Weight:** 300 pounds.

**NO. N-77 BENCH.** Right half only of bench illustrated. Sixty inches long. Equipped with three clamp rods, but no shelf.

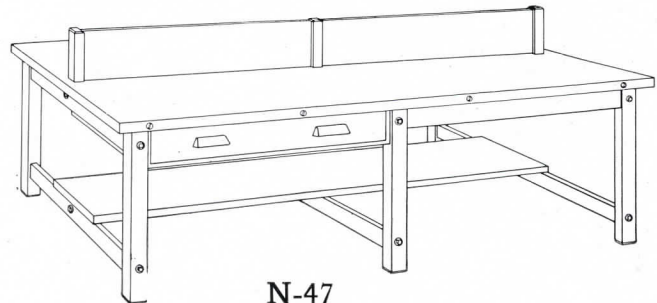
**Weight:** 140 pounds.

**NO. N-78 BENCH.** Left half only of bench illustrated. Sixty inches long. Equipped with top shelf, duplex receptacle, and three clamp rods.

**Weight:** 200 pounds.

**NO. N-79.** Left half only of bench illustrated. Sixty inches long. Equipped with top shelf and lower shelf.

**Weight:** 200 pounds.



N-47

**NO. N-47 PATTERN MAKER'S BENCH.** This bench unit is ideally suited for wood and metal pattern making and can also be used for model making courses. The bench may be equipped with either machinist's, wood worker's, or universal pattern vise. Top is  $2\frac{1}{4}$  inch edge grain maple, bolt reinforced. The center dividing partition can also be used as a tool rack.

**SPECIFICATIONS**

	Length	Depth	Height
Bench .....	84	60	32
2 Drawers Inside .....	$34\frac{1}{2}$	$23\frac{3}{4}$	5
Shelf .....	72	24	10
Top Partition .....	80	---	8

**Material:** Birch and maple.

**Finish:** Natural.

**Weight:** 500 pounds.





N-50

**NO. N-50 WALL BENCH.** This bench may be utilized in many ways. Vises can be mounted on the top for machine shops, or it is

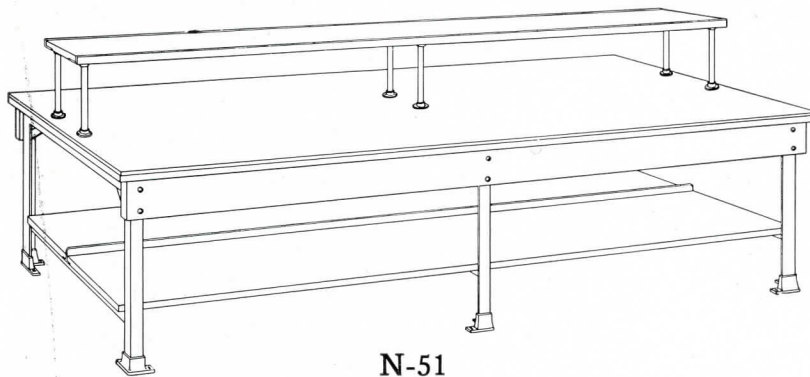
frequently used as an auxiliary wall bench in industrial shops. Many are in use as pulverizing tables for the reduction of small amounts of raw materials in research and control laboratories. The top is 2¼ inch edge grain maple with edge

reinforced with angle iron. The shelf is 1¼ inch maple likewise with angle iron edge. Retaining rails on top and shelf are 5 and 4¾ inches high respectively. Type-A legs are used and are illustrated and described on Page 4.

**SPECIFICATIONS**

	Length	Depth	Height
Bench Overall .....	96	24	32

**Material:** Base, steel. Top, maple.  
**Finish:** Steel, olive green. Top, natural.  
**Weight:** 500 pounds.



N-51

**NO. N-51 DOUBLE SOLDERING TABLE.**

Like the N-50 this bench has many uses. It is designed primarily as a soldering table to accommodate four operators, two on each side. The top is 1⅞ inch 12-gauge steel and legs are arc welded angle iron with cast iron shoes.

**SPECIFICATIONS**

	Length	Width	Height
Bench Overall .....	120	48	32
Top Shelf .....	120	12	9
Lower Shelf .....	120	36	12

**Equipment:** 12-gauge steel strip divider for lower shelf; six 1¼ inch pipe supports with flanges for top shelf.

**Material:** Shelves, 1¼ inch maple. Top, 12-gauge steel over 1¼ inch wood core. Aprons, 1¼ x 5 inch maple.

**Finish:** Shelves, natural. Top, oiled.  
**Weight:** 1250 pounds.

**NO. N-52 SHEET METAL TABLE.** This bench has three open shelves for storing sheet metal. Shelves are constructed of T-iron strips arc welded to cross rails and legs. The top is 2¼ inch edge grain maple with 2 x 1½ x ⅛ inch angle irons set in the edges.

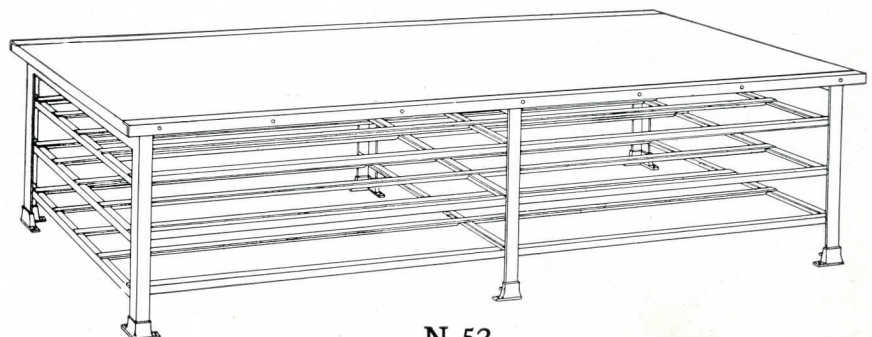
**SPECIFICATIONS**

	Length	Width	Height
Bench Overall .....	120	48	32
Three Open Shelves....	116	38	7½

**Material:** Top, maple.

**Finish:** Top, natural. Base, olive green.

**Weight:** 2100 pounds.



N-52



**NO. R-24 SHOP TOOL CASE** illustrated at right provides 70 square feet of surface for the systematic arrangement of tools, affording accessibility and the utmost convenience. It adds that touch of efficiency which makes a manual training department complete. In the illustration below we have shown a drawing of the pivoted hangers, their position in the case, and have by means of the dotted line endeavored to show how they may be swung around, making both sides available for the hanging of tools. It is this feature that makes possible the provision of large and systematic storage space for tools at a minimum expense and the utmost conservation of floor space. Four large drawers are provided in the bottom section.



R-24

**SPECIFICATIONS**

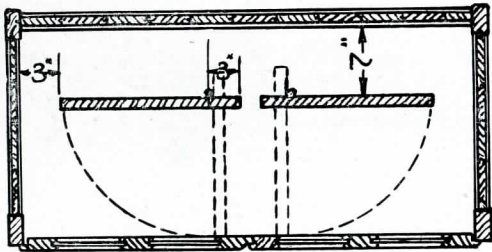
	Length	Width	Depth	Height
Overall .....	48	24	----	80
Upper Section .....	48	24	----	56
Bottom Section .....	48	24	----	24
4 Drawers Inside .....	----	20 $\frac{3}{8}$	17 $\frac{1}{2}$	7 $\frac{3}{4}$
2 Tool Panels .....	----	18	----	52

**Equipment:** Five masterkeyed locks.

**Finish:** School brown.

**Weight:** 475 pounds.

**Material:** Birch and maple.



**NO. R-100 PAINT AND SUPPLY CASE.** The case illustrated at right is extremely strong and rigidly constructed. It is designed as a shop supply cabinet for paints, brushes, oils, sandpaper, steel wool and other shop materials. The shelves are completely adjustable and more than four shelves can be provided on special order at additional cost. The cabinet is made of select furniture metal and permanently welded into a solid unit. Doors are reinforced with a wide panel running from top to bottom and secured by means of a three-way locking device having heavy draw bolts top as well as bottom.

**SPECIFICATIONS**

	Length	Depth	Height
Cabinet Overall .....	37 $\frac{3}{8}$	18	78
Inside Size .....	35 $\frac{1}{8}$	16 $\frac{7}{8}$	68 $\frac{3}{8}$

**Equipment:** Four adjustable metal shelves; one masterkeyed lock; one three way locking device.

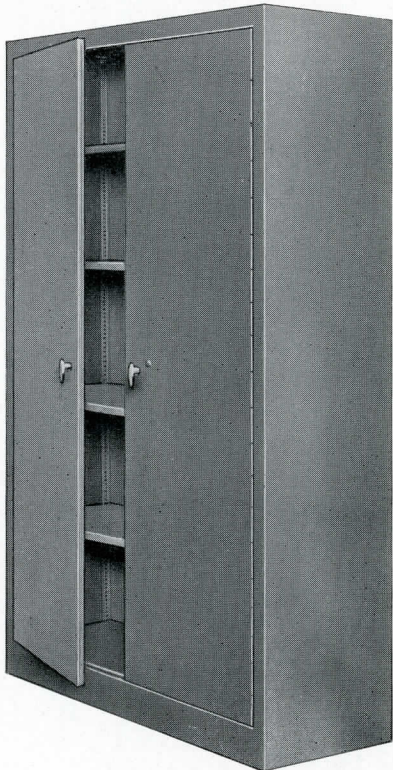
**Material:** Metal.

**Finish:** Olive green.

**Weight:** 235 pounds.

**NO. R-101 CASE.** Same as above except 24 inches deep outside; inside size 22 $\frac{7}{8}$  inches deep.

**Weight:** 255 pounds.



R-100

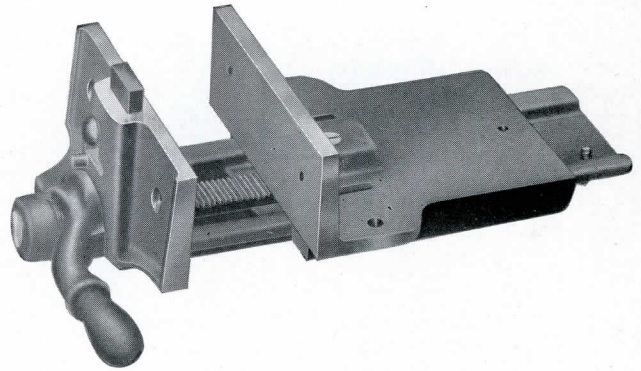


## Sheldon Woodworkers' Vises

*Steel Rack and Continuous Screw  
Over 165,000 now in use*

In constructing our vises we adhere to the principle that makes a successful machinist's vise rigid and powerful. The outer jaw and slide are cast in one solid piece which operates on a long continuous bearing in the back jaw. Jaws are milled and polished on the ends, edges, and inner gripping surfaces.

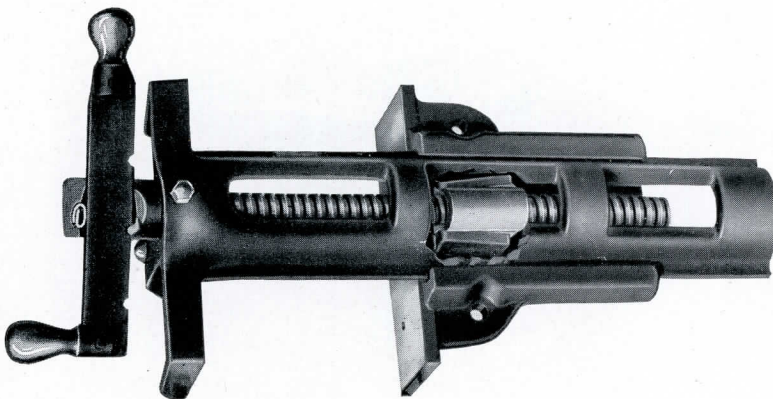
Sheldon vises are the result of a long and expensive process of development. They have reached the stage, however, where we confidently assert that they exceed in strength of grip, durability, and ease of operation any other woodworker's vise made. We make you the judge of this assertion according to any competitive test you may choose. Furthermore, we will furnish you a vise for the purpose, and if it is not entirely suited to your needs, and does not prove to be the best value available, you can return it at our expense.



### No. 3 Rapid Acting Vise

See the details of the Rapid Acting Vises given on page 26. Opens, 8½ inches. Jaws, 3 inches by 7 inches. Weight, 27 pounds.

No. 6 Rapid Acting Vise — The details of this vise are similar to that of the No. 3. Opens, 12 inches. Jaws, 4 inches by 9 inches. Weight, 35 pounds.

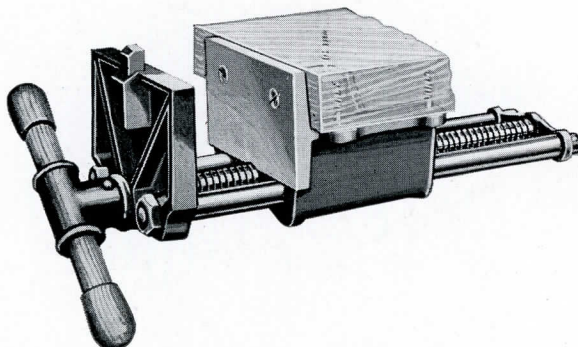


### Continuous Screw Vise

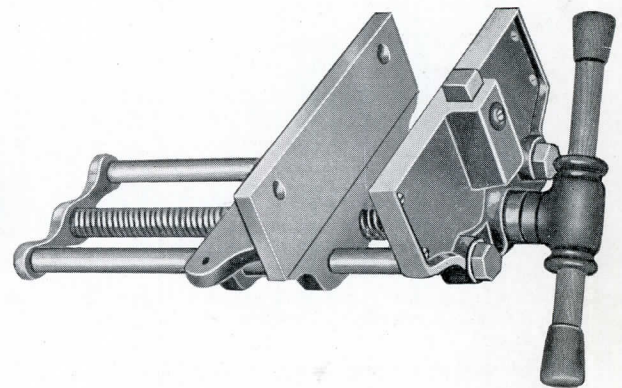
**Advantages** — Rigid indestructible jaws, heavy cold rolled steel screw solid nut set in dovetailed socket, easily removed and renewed, adjustable counterbalanced steel handle unbreakable, and gives rapid action. On average work this vise has proved to be faster than a vise with releasing nut mechanism. It is built like a machinist's vise, and will last as long without repair.

No. 10 Continuous Screw Vise — Opens, 8½ inches. Jaws, 3 inches by 7 inches. Weight, 27 pounds.

No. 12 Continuous Screw Vise — Opens, 12 inches. Jaws, 4 inches by 9 inches. Weight, 35 pounds.



No. 55 Combination Rapid Acting and Continuous Screw Vise — Parallel Bar type with releasing nut. Open, 10 inches. Jaw, 3 inches by 7 inches. Weight, 30 pounds. Metal dog.



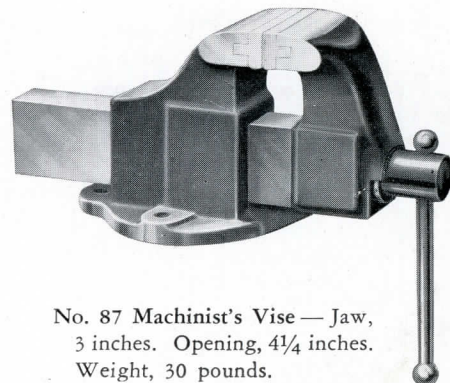
### Parallel Bar Vise

No. 45 Parallel Bar Vise — Rapid Acting with slotted screw type of release. Opens, 12 inches. Jaws, 10 inches. Weight, 38 pounds. Brass dog.

No. 20 — Opens, 12 inches. Jaw, 10 inches. Weight, 37 pounds. No dog.

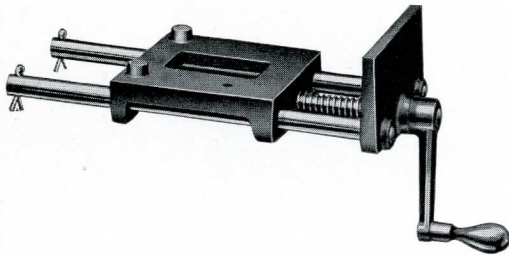
No. 35 — Opens, 10 inches. Jaw, 7 inches. Weight, 30 pounds. Brass dog.

No. 60 — Opens, 12 inches. Jaw, 10 inches. Weight, 38 pounds. Brass dog. Jaws rabbeted for wood facings.

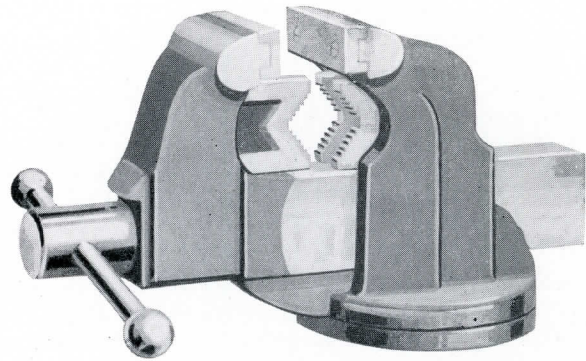


No. 87 Machinist's Vise — Jaw, 3 inches. Opening, 4¼ inches. Weight, 30 pounds.

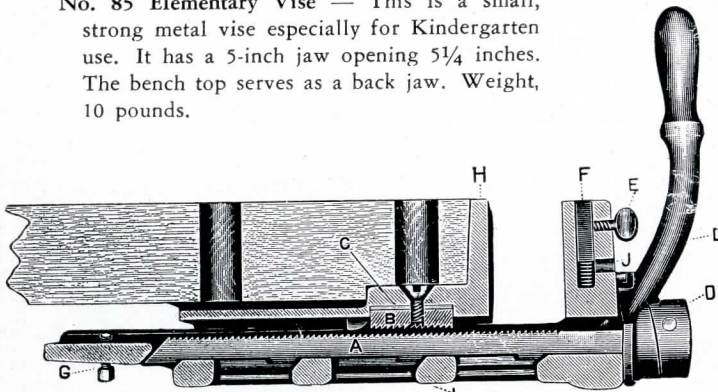




**No. 85 Elementary Vice** — This is a small, strong metal vise especially for Kindergarten use. It has a 5-inch jaw opening  $5\frac{1}{4}$  inches. The bench top serves as a back jaw. Weight, 10 pounds.

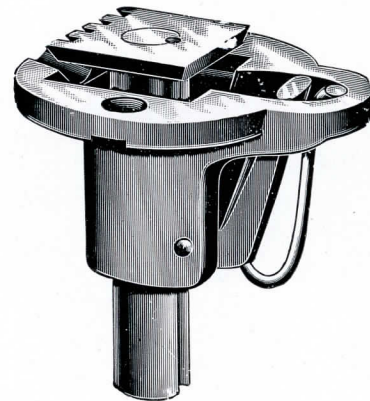


**No. 50 Combination Machinist's and Pipe Grip Vise** — This vise is fitted with removable machinist's and pipe jaws. It has  $3\frac{1}{2}$ -inch jaws. Holds pipe  $\frac{1}{8}$ -inch to 2 inches. Weight, 46 pounds.



### Section of No. 3 Vise

- A—Forged steel rack accurately milled.
- B—Steel section engaging fourteen milled teeth in rack.
- C—Cardboard thrust—adjusting washer, simple and indestructible. Retaining screw accessible through hole for dog in table top.
- D—D—Unbreakable malleable cam and handle.
- E—Forged steel pin.
- F—Dog held in position by spring.
- G—Stop screw to prevent sliding jaw from pulling out.
- H and I—Stationary and sliding jaw. Notice unusual strength and rigidity.



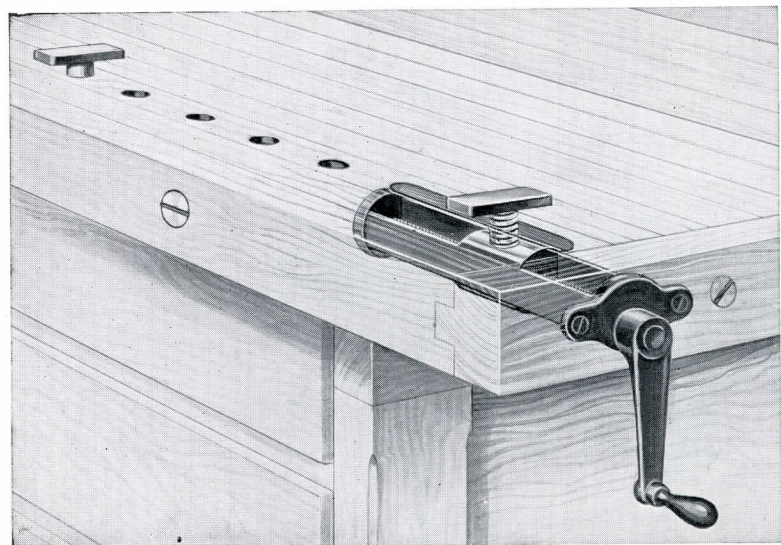
**No. 75 Quick Set Table Stop**—Weight, 1 pound. The construction of this stop with malleable iron body, and steel head and stem make it particularly strong and rigid. The head is keyed on the stem eliminating any possibility of turning. The circular shape of the stop permits attachment without any mortising, merely by boring and counter-boring two holes. It can be instantly adjusted to any elevation up to 2 inches. The reversible head permits the use of the smooth edge against the finished work.

**No. 80 Metal Dog**—Top,  $2\frac{1}{4}$  inches by 1 inch by  $\frac{1}{4}$ -inch. Shank,  $\frac{3}{4}$ -inch diameter and  $2\frac{1}{4}$  inches long.



### No. 70 Concealed Tail Vise

Traveling Head, 1 inch by  $2\frac{1}{4}$  inches. Adjustable to  $\frac{3}{4}$ -inch from the bench top, with  $3\frac{1}{4}$  inches travel. Weight, 5 pounds. To be used in connection with the No. 80 Bench Dog. It can be fitted to any of our regular  $2\frac{1}{4}$ -inch tops. This vise has several advantages over any similar device on the market. First, it takes up little room as the handle projects only slightly. Second, it is of steel and malleable iron which makes it indestructible. Third, it is entirely concealed and protected except for the traveling dog, which does the clamping. The dog screws into the traveling nut, and may be removed, leaving the top unobstructed and marred only by a narrow  $\frac{3}{4}$ -inch slot.



**No. 70 Concealed Tail Vise**

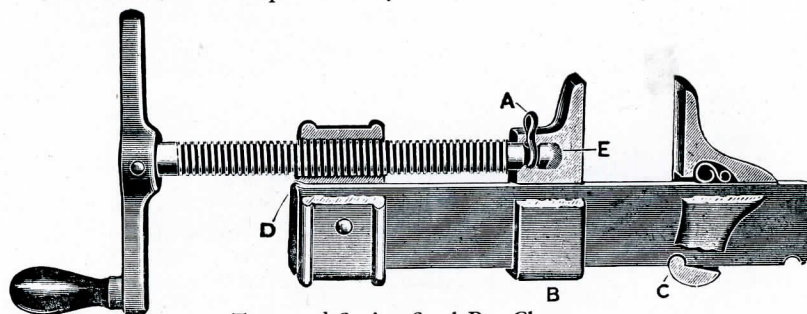


# Clamps

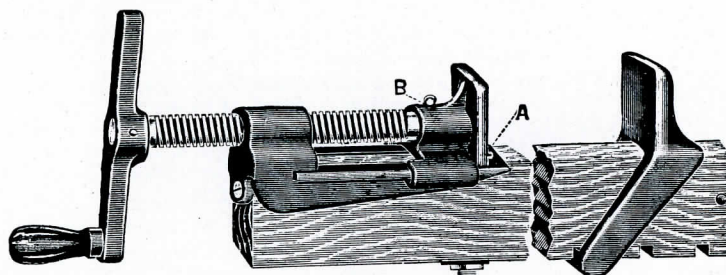
Over 1,000 of our clamps are in daily use in our own factory where we build science, laboratory, home economics and vocational furniture for schools. The heavy nature of the work and the excessive pressure often required, led us to manufacture our own clamps. These clamps have proved practically indestructible.

First-hand observation of clamp requirements during a long period, coupled with our excellent manufacturing facilities, has enabled us to develop a perfection of design, workmanship and material that we guarantee unreservedly. If any clamp furnished by us shows signs of weakness or wear within one year we will refund the purchase price in full.

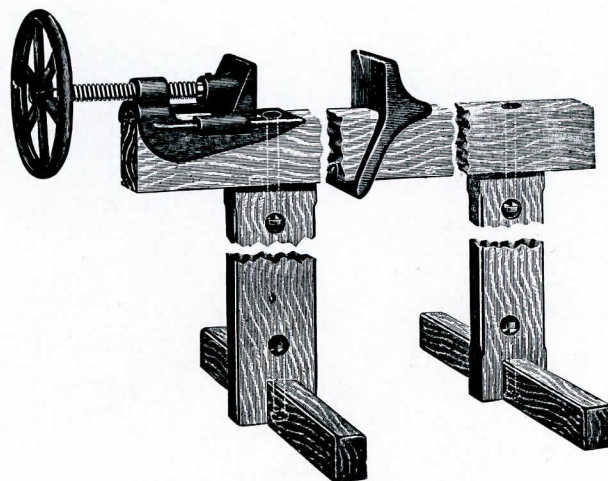
The best evidence of our success is the fact that our output exceeds 25,000 clamps annually.



Tempered Spring Steel Bar Clamps



Clamp Fixture No. 1



Malleable Perfection Horse Clamps

Mounted on 6-foot Maple bars, weight 65 pounds. Malleable iron fixtures only, weight 20 pounds.

Sliding head  $3\frac{1}{4} \times 4$  inches; fixtures designed to fit bar  $2\frac{3}{8} \times 4$  inches; screw 1-inch steel, 29-degree acme double thread, 4 threads per inch, 11 inches long; hand wheel, 10 inches diameter. An extra heavy clamp for a variety of work where quick action and heavy compression is desirable.

## Tempered Spring Steel Bar Clamps

Bar  $\frac{5}{16} \times 1\frac{3}{8}$ -inch tempered steel. Steel screw,  $7 \times \frac{5}{8}$ -inch, with 29-degree acme, 6 threads per inch. Sliding head,  $1\frac{3}{4} \times 2$  inches.

Weight, per dozen	$2\frac{1}{2}$ -foot,	90 pounds.
Weight, per dozen	3-foot,	96 pounds.
Weight, per dozen	4-foot,	102 pounds.
Weight, per dozen	5-foot,	120 pounds.
Weight, per dozen	6-foot,	144 pounds.
Weight, per dozen	7-foot,	156 pounds.

A—Steel collar enveloping groove in screw keeps head attached.

B—Sleeve enveloping bar eliminates bending strain.

C—Indestructible latch cast in head engages notch in bar.

D—Screw head driven and headed into bar before pinning. Insures perfect alignment.

E—Hardened steel plate. Eliminates wear at end of screw.

Malleable cranks are quick acting, and permit the use of both hands for excessive pressure.

Screw shank milled on two sides and headed into rectangular socket in handle which eliminates the shearing of handles secured by pins or rivets.

## Patent Malleable Clamp Fixture No. 1

Iron Fixtures only for No. 1 Clamp, weight per dozen, 40 pounds.

Mounted on 3-foot bars,	weight per dozen,	72 pounds.
Mounted on 4-foot bars,	weight per dozen,	80 pounds.
Mounted on 5-foot bars,	weight per dozen,	90 pounds.
Mounted on 6-foot bars,	weight per dozen,	100 pounds.

Screw,  $\frac{5}{8}$ -inch steel, 29-degree acme, 6 threads per inch, 7 inches long.

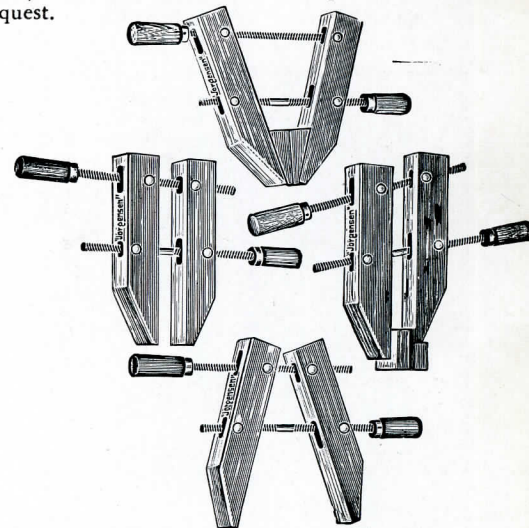
The sliding head is supported by malleable guides which remove the bending strains when irregular or thin material is clamped.

Note the improved method of attaching the sliding head at B. A steel collar entirely envelops a groove in the screw, and a steel thrust plate is placed at the end.

Fixtures are mounted on clear Maple bars,  $2\frac{3}{8}$  inches wide by  $1\frac{1}{4}$  inches thick, and finished with two coats of varnish.

The heads are easily attached and will not loosen or get out of line with frame.

We advise the use of  $2\frac{3}{4} \times \frac{5}{16}$ -inch flat head stove bolts, and will furnish same complete with washers on request.



Peerless Jorgenson Clamps

No.	Length of Jaws Inches	Jaws Open Inches	Weight per Dozen	No.	Length of Jaws Inches	Jaws Open Inches	Weight per Dozen
0	8	4	58	3	14	10	94
1	10	6	70	4	16	12	106
2	12	8	82	5	18	14	118

Spindles and sockets of these clamps are of steel and jaws are of seasoned hard Maple. They are guaranteed against breakage. The photograph above illustrates the manner in which overlapping and irregular surfaces can be gripped. The advantage of this feature is apparent.

Right and left-hand threads double the speed of operation. Glue will not stick to the spindles and strip the threads, as on ordinary wooden clamps.



## DRAWING TABLE CONSTRUCTION

The illustrations on this page show how Sheldon Drawing Tables are constructed. It has long been recognized that school furniture must be built extra heavy to withstand continuous daily usage. Drawing Tables, if they are to endure, must have inherent quality and stamina.

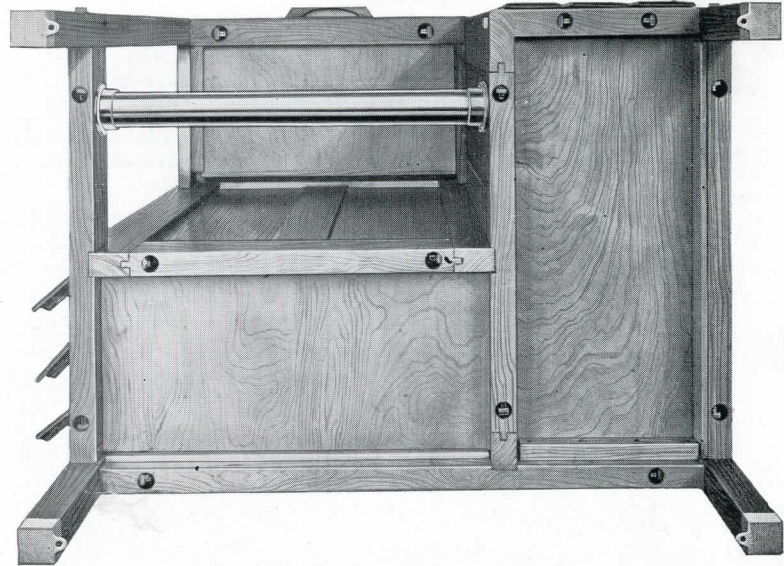
At right is shown the underside of a Drawing Table. The frame is entirely bolt reinforced as indicated. Temperature changes and varying degrees of dryness and humidity have no effect on these tables. Over forty years experience in producing fine cabinet work has enabled Sheldon Craftsmen to anticipate and eliminate objectionable construction and material defects.

**A** The adjustable friction slides used on table tops are  $\frac{1}{8}$  inch cast metal. The locking mechanism is made up of the slide itself, a  $\frac{1}{16}$  inch bolt and thumb nut and a friction washer. The washer insures positive action and can be renewed from time to time as occasion and usage requires.

**B** Sheldon methods of bolt reinforcing cabinet frames have long been recognized as a standard. Your attention is called to the fact, in a graphic manner below, that a total of 24 bolts is used in the frame of the P-50 Drawing Table. All legs are equipped with flush type aluminum leg shoes.

**C** All doors on drawing board compartments are reinforced at the corners with  $\frac{1}{4}$  inch hardwood dowels at points where mortises and tenons occur. Doors can never be sprung out of square. The most careless student will find it difficult to misuse one of these tables. Wood division cleats are used in drawing board compartments for spacing, enabling easy insertion and withdrawal of boards from the recess without damage to the drawing usually left stapled to the board from class period to class period.

**D** All drawers are equipped with metal keels to insure smooth action and proper alignment. The lower part of the keel is 16 gauge and is attached to the cabinet frame; the

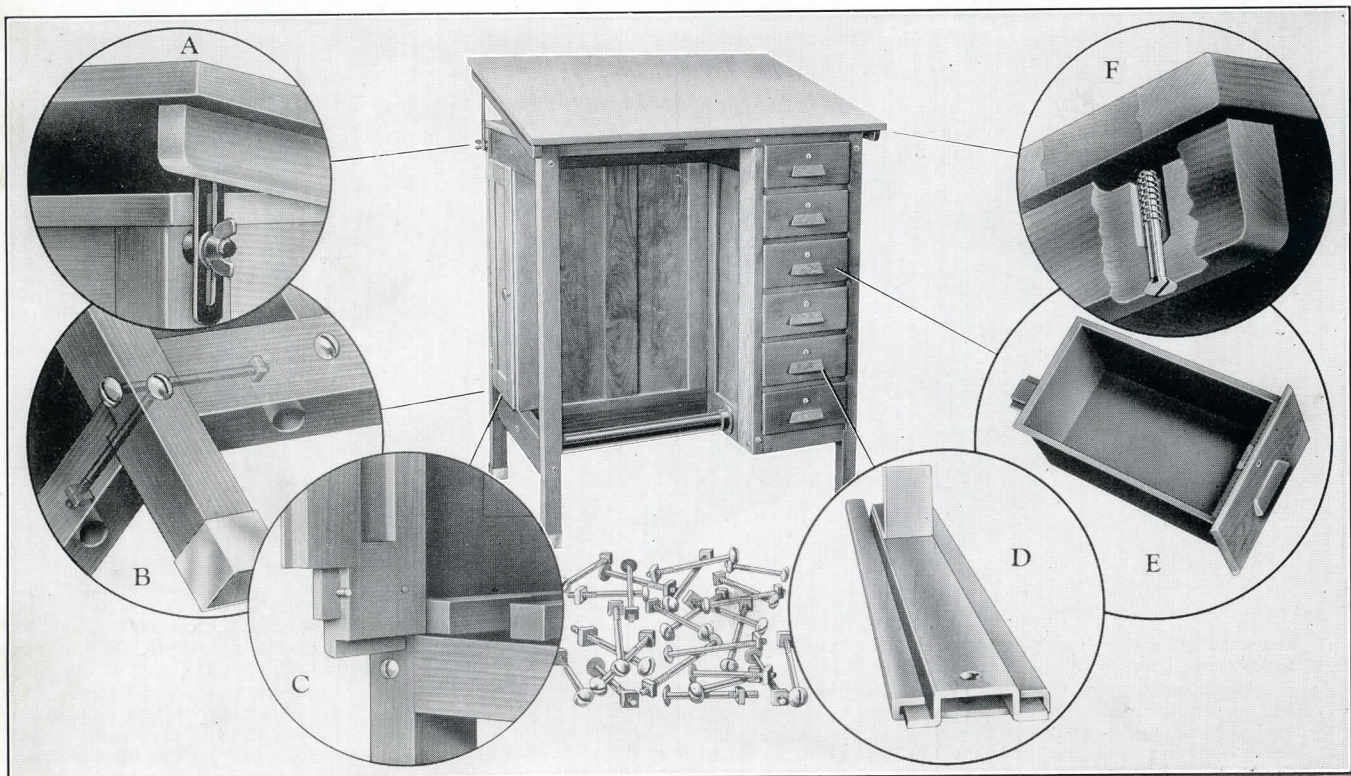


Underside View of Sheldon Drawing Table

upper section is 14 gauge and is fastened directly to the underside of the drawer body.

**E** All drawers have 20-gauge metal bodies attached to wood fronts. Wet sponges, brushes, ink, watercolors and moist cloths can have no lasting or deteriorating effect on drawers since the metal is not subject to warping or swelling. Each drawer is also equipped with an 18-gauge hinge type stop welded to the drawer body.

**F** Drawing Table tops are hardwood, reinforced with two  $1\frac{1}{2}$  inch cleats. The top is attached to each cleat with four No. 10 x 2 inch wood screws. Screws are inserted in counter-bored holes through the cleats to compensate for top swelling and shrinkage. The top proper is attached to the front of the cabinet by means of two hinges.







P-50

**NO. P-50 SIX-CLASS DRAWING TABLE.** This design affords a maximum of working surface and storage capacity for the amount of floor space occupied. There are six private drawers for instruments and supplies, and a cupboard to accommodate six drawing boards. The top is adjustable to approximately 15 degrees. Drawer bodies are made of 20 gauge metal attached to wood drawer fronts. Wet sponges, cloths and other supplies sometimes used in drafting classes can thus have no deteriorating effect on the drawers.

#### SPECIFICATIONS

	Width	Depth	Height
Table .....	36	28	40
6 Private Drawers Inside.....	8	17½	3¾
1 Drawing Board Compartment Inside.....	9	20	24½

**Equipment:** Two top adjusting slides; one iron foot rail; six masterkeyed locks; four metal shoes; six drawer keels.

**Material:** Birch or maple.

**Finish:** Cabinet, school brown; top, natural.

**Weight:** 240 pounds.

**NO. P-51:** Same as P-50 except that the table is equipped with an adjustable swinging stool mounted on a special leg. Weight, 270 pounds.

**NO. P-52:** No. P-50, 33 inches high. Weight, 235 pounds.

**NO. P-53:** No. P-51, 33 inches high. Weight, 260 pounds.



P-54

#### NO. P-54 ONE-CLASS DRAWING TABLE.

Where a private locker system is not required, the No. P-54 is fully adequate, as the drawer is sufficiently large to hold drawing instruments, supplies, drawing board, T-square, and other equipment. The drawer body is made of 20 gauge metal attached to wood front.

#### SPECIFICATIONS

	Width	Depth	Height
Table .....	36	28	40
1 Drawer Inside.....	22¼	17½	3¾

**Equipment:** One iron foot rail; two top adjusting slides; four metal shoes; one drawer keel.

**Material:** Birch or maple.

**Finish:** Cabinet, school brown; top, natural.

**Weight:** 130 pounds.



P-51





P-55

#### NO. P-55 SIX-CLASS DRAWING TABLE.

This table is well adapted for the advanced work of Engineering and Architectural Drawing. Two large compartments on the end accommodate boards 24 x 32 inches. In addition four compartments for smaller drawing boards are located on the front. An instrument tray recess is located above each drawing board compartment. With this table each student may have all of his equipment under lock and key at all times. The large general drawer has a body made of 20 gauge metal attached to the wood front. Instrument trays are available for this unit and are illustrated and described at the bottom of this page.

#### SPECIFICATIONS

	Width	Depth	Height
Table .....	42	30	40
4 Drawing Board Lockers Inside .....	2½	16	24¼
2 Drawing Board Lockers Inside .....	2½	36	24¼
6 Instrument Lockers Inside .....	2½	15	4¾
1 General Drawer Inside..	20⅞	13½	3¾

**Equipment:** Two top adjusting slides; one iron foot rail; six masterkeyed locks; four aluminum leg shoes; six instrument trays; one drawer keel.

**Material:** Birch or maple.

**Finish:** Cabinet, school brown; top, natural.

**Weight:** 310 pounds.



P-56

#### NO. P-56 EIGHT-CLASS DRAWING TABLE.

This table is designed to accommodate a maximum number of classes with a private compartment in a minimum space for each student. The line drawing at right illustrates the back of the table showing the location of four additional drawing board and instrument tray compartments.

#### SPECIFICATIONS

	Width	Depth	Height
Table .....	42	30	40
8 Drawing Board Lockers Inside .....	1¾	23¼	24¼
8 Instrument Lockers Inside .....	3	12	4¼
1 General Drawer Inside.....	20⅞	13½	3¾

**Equipment:** Two top adjusting slides; one iron foot rail; eight masterkeyed locks; six aluminum leg shoes; eight instrument trays; one drawer keel.

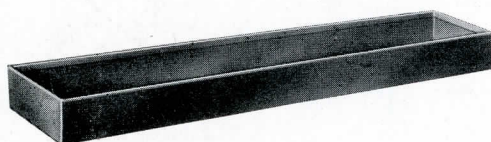
**Material:** Birch or maple.

**Finish:** Cabinet, school brown; top, natural.

**Weight:** 310 pounds.



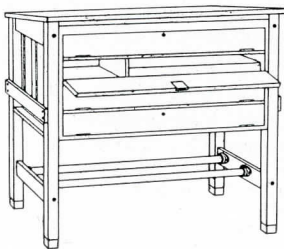
Rear View of P-56



P-74

**NO. P-74 INSTRUMENT TRAY.** The illustration at left shows an instrument tray 2¼ inches wide, 12 inches long, 1 inch high, made of wood and finished with moisture-resisting varnish. This tray has ample accommodation for the great variety of rules, erasers, ink bottles, paints and brushes ordinarily required by the average student. It is designed to fit into the compartments shown on the P-55 above, or it may be used as a tote tray in wall storage cases.





Rear View of P-57

**NO. P-57 EIGHT-CLASS DRAWING TABLE.** The table illustrated at right has the advantage of large storage capacity for drawing boards and instruments. The drawing boards are stored in a horizontal position, which is a marked advantage where rendering and wash drawings are in progress. Compartments open on both front and rear of the table, there being storage capacity for eight boards. The line drawing at left illustrates the rear arrangement of compartment doors.

**SPECIFICATIONS**

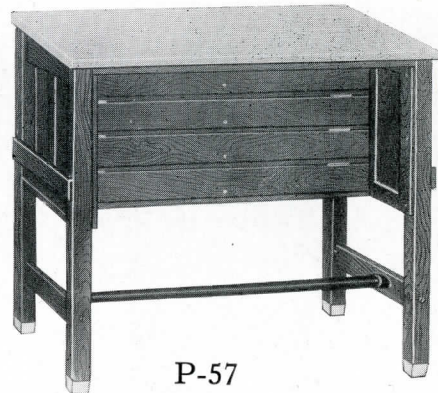
	Width	Depth	Height
Table .....	44	30	38
8 Drawing Board Compartments Inside .....	24½	18	1¾
8 Instrument Compartments Inside.....	10½	9	3

**Equipment:** Eight masterkeyed locks; one iron foot rail; four metal shoes; two slatted book racks mounted on ends; eight instrument trays.

**Material:** Birch or maple.

**Finish:** Cabinet, school brown; top, natural.

**Weight:** 190 pounds.



P-57

**NO. P-58 SIX-CLASS DRAWING TABLE.** This table provides complete locker accommodations for drawing equipment, including a 22 x 24 inch drawing board, instrument case, T-squares, and triangles for each student of six classes. The large general drawer has a body of 20-gauge metal attached to wood front.

**SPECIFICATIONS**

	Width	Depth	Height
Table .....	36	28	40
6 Drawing Board Lockers Inside....	2½	20	24¼
6 Instrument Lockers Inside....	2½	12	4¾
1 General Drawer Inside.....	18¼	9	3¾

**Equipment:** Two top adjusting slides; one iron foot rail; six masterkeyed locks; four aluminum leg shoes; six instrument trays; one drawer keel.

**Material:** Birch or maple.

**Finish:** Cabinet, school brown; top, natural.

**Weight:** 275 pounds.



P-58

**NO. P-59 THREE-CLASS DRAWING TABLE.** This table is the same as the No. P-58 except that it has only the front compartments for drawing boards. The same construction features are incorporated in this table, making it in every respect as durable and long lasting as other Sheldon units.

**SPECIFICATIONS**

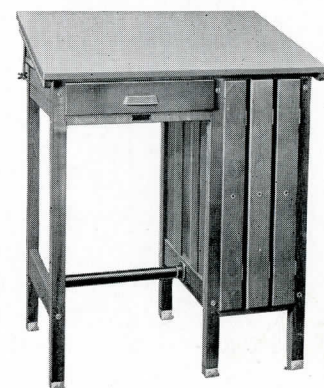
	Width	Depth	Height
Table .....	36	28	40
1 Drawer Inside .....	17¾	18½	3¾
3 Drawing Board Lockers Inside .....	2½	21	21¼
3 Instrument Compartments Inside .....	2½	14½	4¼

**Equipment:** Two top adjusting slides; one iron foot rail; three masterkeyed locks; six aluminum leg shoes; three instrument trays; one drawer keel.

**Material:** Birch or maple.

**Finish:** Cabinet, school brown; top, natural.

**Weight:** 205 pounds.



P-59





P-60

**NO. P-60 SIX-CLASS DRAWING TABLE.** The table illustrated at left is similar to the No. P-56 shown on page 30 but accommodates only six compartments for drawing boards and instrument trays instead of eight. The front has three compartments as well as the rear providing one of the most compact units possible. Considering its accommodations it takes up a minimum of space and offers an economical unit for crowded drafting departments where storage cases cannot be used. The drawer body is made of 20-gauge metal attached to wood front.

#### SPECIFICATIONS

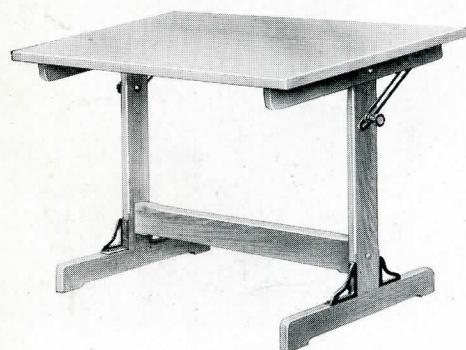
	Width	Depth	Height
Table .....	38	30	40
1 Drawer Inside .....	18 $\frac{1}{4}$	18 $\frac{1}{2}$	3 $\frac{3}{8}$
6 Drawing Board Compartments Inside .....	13 $\frac{3}{8}$	23 $\frac{1}{4}$	24 $\frac{1}{4}$
6 Instrument Lockers Inside .....	3	11 $\frac{3}{4}$	4 $\frac{1}{4}$

**Equipment:** Two top adjusting slides; one iron foot rail; six masterkeyed locks; six aluminum leg shoes; six instrument trays; one drawer keel.

**Material:** Birch or maple.

**Finish:** Cabinet, school brown; top, natural.

**Weight:** 270 pounds.



P-611

**NO. P-611 DRAFTING TABLE.** For strict economy this drafting table has no superior. It is exceptionally sturdy and reinforced with metal corner irons as illustrated. The adjustable top is of softwood material.

#### SPECIFICATIONS

	Length	Width	Height
Table .....	42	32	38

**Equipment:** Two top adjusting slides.

**Material:** Top, softwood. Understructure, birch or maple.

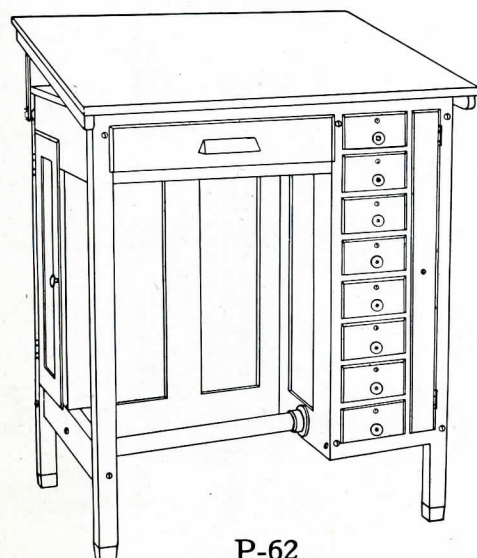
**Finish:** School brown.

**Weight:** 110 pounds.

**NO. 612.** Same as above but 34 inches high.

**NO. 613.** Similar to table illustrated but more adaptable to art or mechanical drawing courses. Size 36 inches long, 24 inches wide, and 34 inches high.

**Weight:** 90 pounds.



P-62

**NO. P-62 EIGHT-CLASS DRAWING TABLE.** Where a large number of classes are required to accommodate heavy enrollments, this drawing table meets every need. It incorporates generous private storage space and has long been one of the most popular drawing tables in the Sheldon line. All drawers have 20 gauge metal bodies attached to wood fronts.

#### SPECIFICATIONS

	Width	Depth	Height
Table .....	36	28	40
8 Drawers .....	4	18 $\frac{1}{2}$	23 $\frac{3}{8}$
1 Drawer .....	18 $\frac{1}{4}$	9	3 $\frac{3}{8}$
1 Drawing Board Compartment .....	3 $\frac{3}{8}$	20 $\frac{1}{2}$	30
1 Drawing Board Compartment for 6 Drawing Boards..	9	19 $\frac{1}{2}$	24 $\frac{3}{8}$

**Equipment:** Two top adjusting slides; one iron foot rail; eight masterkeyed locks; four metal shoes; nine drawer keels.

**Material:** Birch or maple.

**Finish:** Cabinet, school brown; top, natural.

**Weight:** 265 pounds.



**NO. P-633 DRAWING INSTRUCTOR'S DESK** provides a large table top for the instructor. The top left-hand drawer is equipped with a masterkeyed lock. All drawers have 20-gauge metal bodies attached to wood fronts. The toe space recess is lined with acid resisting composition.

#### SPECIFICATIONS

	Length	Depth	Height
Table .....	72	34	34
2 Drawers Inside .....	17 $\frac{1}{8}$	24 $\frac{1}{2}$	3 $\frac{3}{4}$
6 Drawers Inside .....	36 $\frac{1}{4}$	24 $\frac{1}{2}$	1 $\frac{3}{4}$
Knee Space .....	27	34	30 $\frac{3}{4}$

**Equipment:** 1 iron foot rail; one masterkeyed lock; two metal shoes; 3 inch retaining strip entire length of long drawers at rear; 14 drawer keels.

**Material:** Birch and maple.

**Finish:** Cabinet, school brown. Top, natural.

**Weight:** 410 pounds.

**NO. P-634.** Same as above but with all drawers masterkeyed.

**NO. P-635.** Same as desk illustrated but with adjustable top.

**NO. P-636.** Same as No. P-635 but with all drawers masterkeyed.

**NO. P-655 TRACING AND PRINT FILE.** This case is a companion item to the No. P-633 Desk illustrated above. The long shallow drawers are interchangeable with those in the P-633. The toe space recess is lined with acid resisting composition. All drawers have 20-gauge metal bodies attached to wood fronts.

#### SPECIFICATIONS

	Length	Depth	Height
Case .....	72	34	34
6 Drawers Inside .....	26 $\frac{3}{4}$	24 $\frac{1}{2}$	1 $\frac{3}{4}$
6 Drawers Inside .....	36 $\frac{1}{4}$	24 $\frac{1}{2}$	1 $\frac{3}{4}$
1 Drawer Inside .....	26 $\frac{3}{4}$	24 $\frac{1}{2}$	3 $\frac{3}{4}$
1 Drawer Inside .....	36 $\frac{1}{4}$	24 $\frac{1}{2}$	3 $\frac{3}{4}$

**Equipment:** 14 Label holders; 3 inch retaining strip the entire length of all drawers at rear; 28 drawer keels.

**Material:** Birch and maple.

**Finish:** Cabinet, school brown. Top, natural.

**Weight:** 410 pounds.

**NO. P-656.** Same as above but with 14 masterkeyed locks.

**NO. P-657.** Same as bench illustrated but with adjustable top.

**NO. P-658.** Same as No. P-657 but with 14 masterkeyed locks.

**NO. P-66 DRAFTING TABLE.** This desk is frequently used as a Drawing Instructor's Desk. In addition to the long drawer one general drawer as well as a letter sized filing drawer is provided. The top slopes 4 inches to the back. All drawers have 20 gauge metal bodies attached to wood fronts.

#### SPECIFICATIONS

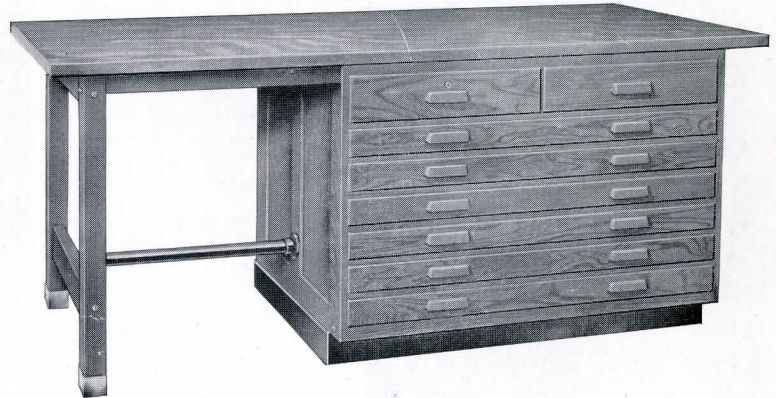
	Width	Depth	Height
Table .....	60	34	40
1 Drawer Inside .....	41	24 $\frac{1}{2}$	2 $\frac{7}{8}$
1 Drawer Inside .....	12 $\frac{5}{8}$	24 $\frac{1}{2}$	2 $\frac{7}{8}$
1 Drawer Inside .....	12 $\frac{5}{8}$	24 $\frac{1}{2}$	10 $\frac{7}{8}$

**Equipment:** One iron foot rail; four aluminum leg shoes; five drawer keels; one follower block for file drawer.

**Material:** Birch or maple.

**Finish:** Cabinet, school brown; top, natural.

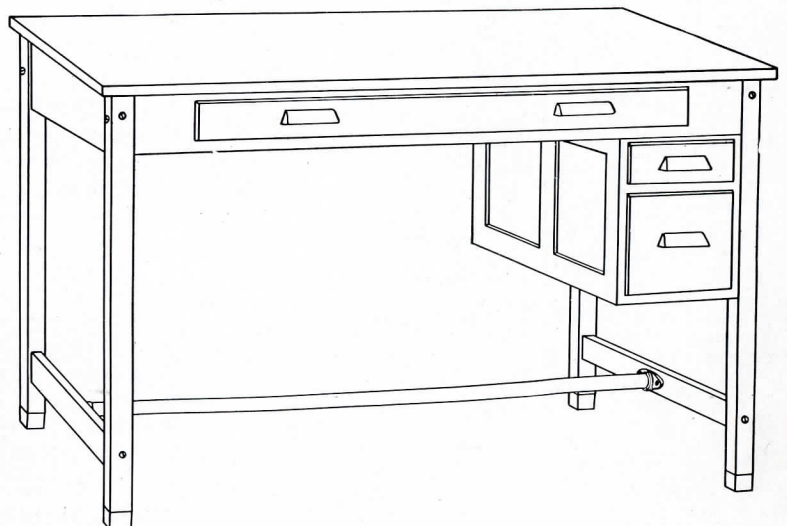
**Weight:** 270 pounds.



P-633



P-655



P-66





P-67

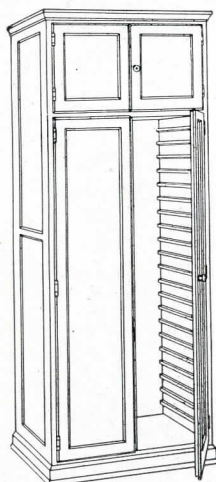
**NO. P-67 COMBINATION CASE.** This unit provides storage accommodations for the instruments and drawing boards of each of thirty students. Drawing boards up to 26" x 20" can be accommodated. Each drawer has a masterkeyed lock, and drawing board compartment doors are released when respective drawers are opened.

**SPECIFICATIONS**

	Width	Depth	Height
Overall .....	48	22	80
30 Drawers Inside .....	8	18	3 3/8
30 Drawing Board Compartments Inside .....	26	20	1 1/2

**Equipment:** Thirty masterkeyed locks; thirty drawer keels.  
**Material:** Birch or maple.  
**Finish:** School brown.  
**Weight:** 900 pounds.

**NO. P-68:** With drawers and compartments secured by two locks operating thirty locking devices.



P-70

**P-70 DRAWING BOARD CASE.** This unit is designed to carry a maximum of thirty-six drawing boards 21 inches long and from 16 to 19 1/2 inches wide. The top cupboard is provided for the storage of models or supplies.

**SPECIFICATIONS**

	Width	Depth	Height
Overall .....	25	22	80
1 Cupboard Inside .....	21 1/2	19 1/2	16
1 Cupboard Inside for 36 Drawing Boards .....	21 1/2	19 1/2	54

**Material:** Birch or maple.  
**Finish:** School brown.  
**Weight:** 270 pounds.



P-69

**NO. P-69 BLUE PRINT FILE.** This combination file and work table has proved of great popularity. The top drawer is provided with light-proof flap door for the storage of sensitized paper, and serves as an additional working counter when necessary. The seven lower drawers provide storage for tracings and blue prints.

**SPECIFICATIONS**

	Width	Depth	Height
Overall .....	44	24	34
1 Dark Drawer Inside .....	38	18 1/2	5 1/8
7 File Drawers Inside .....	38	18 1/2	1 5/8

**Equipment:** Seven card holders; 16 drawer keels.

**Material:** Birch or maple.

**Finish:** School brown.

**Weight:** 315 pounds.



P-71

**NO. P-71 DRAWING INSTRUMENT CASE.** This unit is designed to accommodate thirty-six drawing instrument tote tray drawers. Each drawer may be locked by a masterkeyed lock, as shown, or the top drawer of each row and all lower drawers controlled by locking devices.

**SPECIFICATIONS**

	Width	Depth	Height
Overall .....	34 3/4	22 1/2	80
1 Cupboard Inside .....	28 3/4	20	16
36 Drawers Inside .....	8	17 1/2	3 3/8

**Equipment:** Thirty-six masterkeyed locks.

**Material:** Birch or maple.

**Finish:** School brown.

**Weight:** 410 pounds.

**NO. P-72:** With three locks and thirty-six locking devices.

**Weight:** 410 pounds.

**NO. P-73:** Twenty-four masterkeyed drawers.

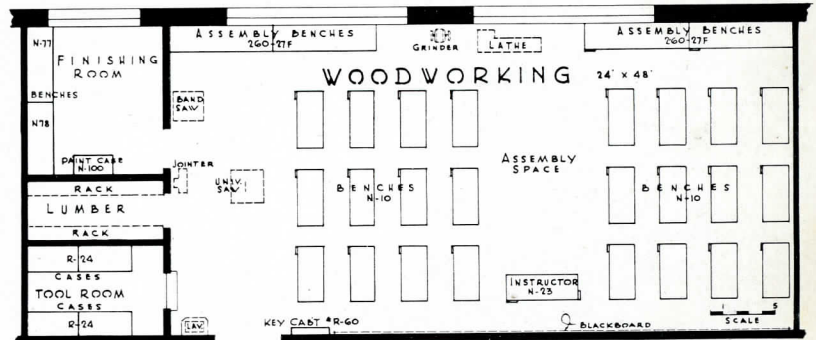
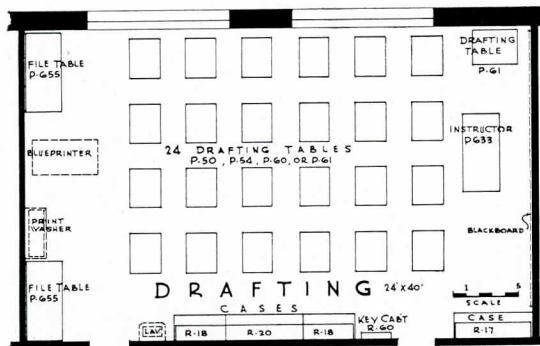
**Weight:** 325 pounds.



## SHELDON PLANNING SERVICE

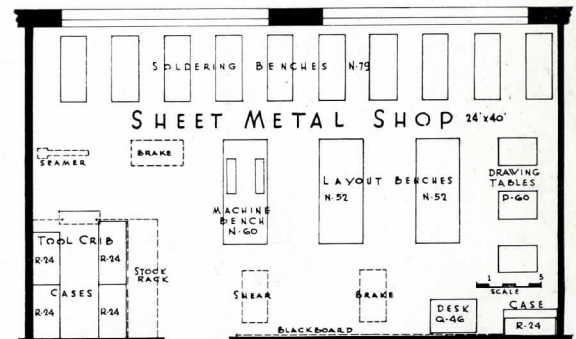
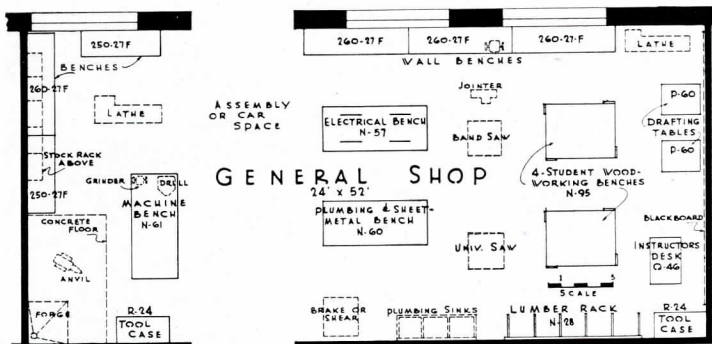
Sheldon's Planning Department assumes complete responsibility for the efficient planning of Industrial Arts Shops and Drafting Rooms. Over forty years experience in laying out and furnishing all types of laboratories and vocational work shops in accordance with the best pedagogical standards has familiarized the men in this department with every conceivable problem which can possibly arise in connection with the planning, choosing and installation of equipment for Industrial Arts Departments. No obligation is involved in requesting this service which Sheldon offers without charge to School Administrators and Instructors.

The layouts on this and the following page merely suggest the various methods of working out shops and drafting rooms. If they serve to stimulate thoroughgoing planning they will have accomplished their purpose. Each room in an Industrial Arts Department is an individual problem and merits the most painstaking thought. Hence, Sheldon's Planning Service has come into being as an aid for your use. We know from past experience that it can give you valid and valuable assistance. The aim of this department is to crystallize your requirements in a graphic and articulate manner by means of layouts, specifications and budget estimates.



- 1. DRAFTING ROOM.** Room size, 24' x 40'.  
**Layout Characteristics.** 24 Student positions; 2 Instructor's work areas; facilities for storage of supplies, tracings and prints; blueprinting apparatus.

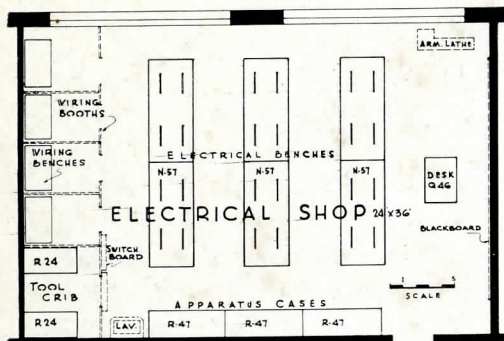
- 2. WOODWORKING SHOP.** Room size, 24' x 48'.  
**Layout Characteristics.** 24 Student positions at individual benches; 1 Instructor's position; 5 machine positions; facilities for tool storage, lumber storage, project assembly, and finishing.



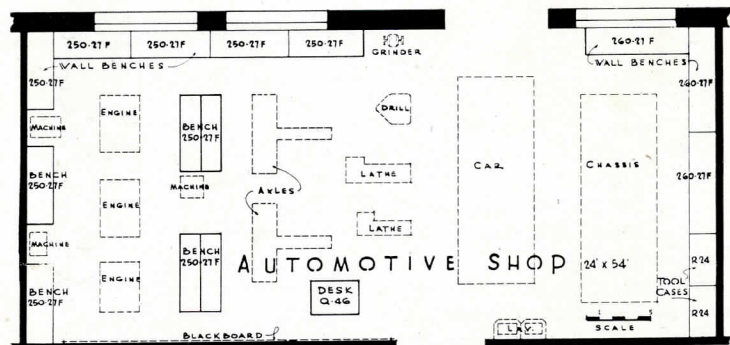
- 3. GENERAL SHOP.** Room size, 24' x 52'.  
**Layout Characteristics.** Student capacity 32; 1 Instructor's position; facilities for woodworking, metal work, plumbing, electrical work, drafting, wood and metal turning, forging, material and tool storage, and project assembly.

- 4. SHEET METAL SHOP.** Room size, 24' x 40'.  
**Layout Characteristics.** 10 Student positions at individual soldering benches; 1 Instructor's position; 6 machine positions; facilities for drafting, layout, material and tool storage.

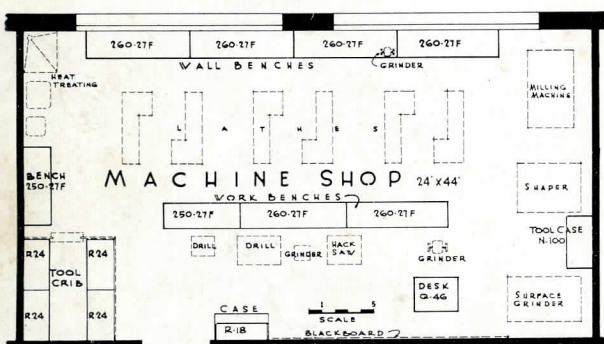




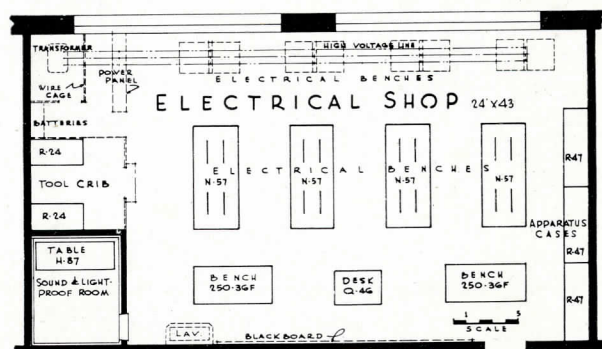
5. **ELECTRICAL SHOP.** Room size, 24' x 36'.  
**Layout Characteristics.** 24 Student capacity; 1 Instructor's position; facilities for storage of apparatus and supplies, study of electrical apparatus, and special activities.



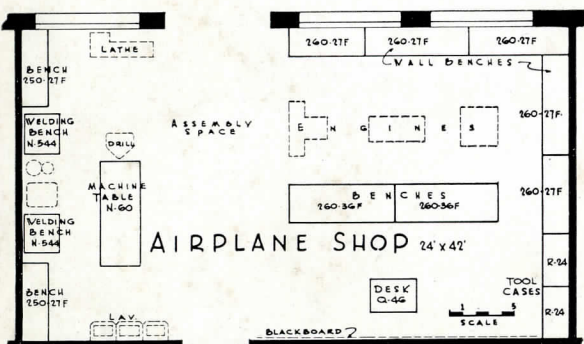
6. **AUTOMOTIVE SHOP.** Room size, 24' x 54'.  
**Layout Characteristics.** 24 Student capacity; 1 Instructor's position; 12 machine and engine positions; facilities for chassis and body assembly, engine assembly and study, storage, and specialized "job" activities.



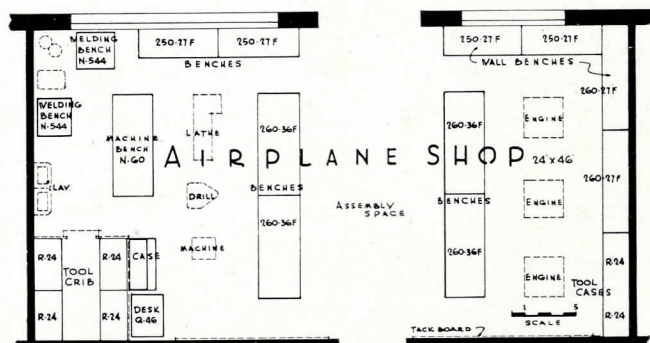
7. **MACHINE SHOP.** Room size, 24' x 44'.  
**Layout Characteristics.** Student capacity 24; 1 Instructor's position; 16 machine positions; facilities for tool storage, and special projects.



8. **ELECTRICAL SHOP.** Room size, 24' x 43'.  
**Layout Characteristics.** 24 Student positions; 1 Instructor's position; facilities for storage, special activities, study of electrical apparatus and high voltage experiments.



9. **AIRPLANE SHOP.** Room size, 24' x 42'.  
**Layout Characteristics.** Student capacity 24; 1 Instructor's position; 6 machine positions; facilities for welding, storage, fuselage and wing assembly and engine research and study.

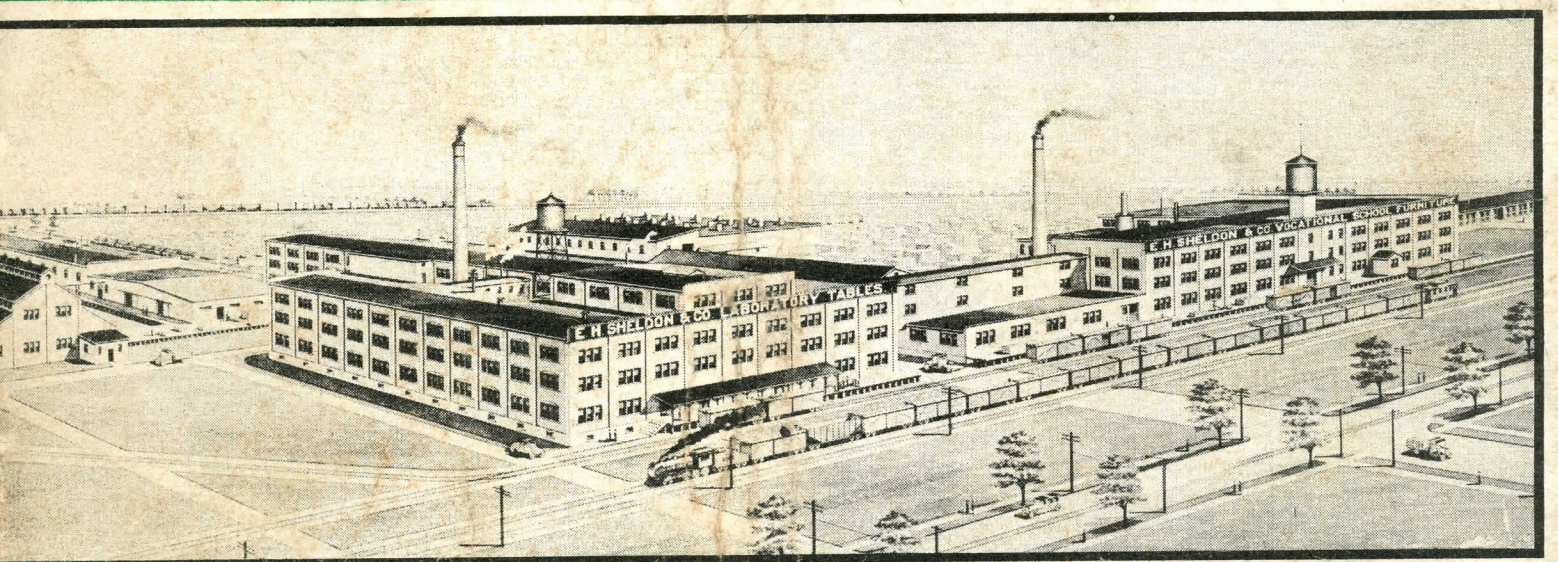


10. **AIRPLANE SHOP.** Room size, 24' x 46'.  
**Layout Characteristics.** Student capacity 24; 1 Instructor's position; 8 machine and motor positions; facilities for storage, special "job" activities or fuselage and wing assembly.









Bird's-eye view of E. H. Sheldon & Company, Muskegon, Michigan, showing the ten-acre tract containing factory, lumber yard, and storage houses. There are over three hundred thousand square feet of floor space devoted to the actual manufacture of Laboratory, Home Economics, and Vocational Furniture.